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OM protein - protein search, using sw model

Run on: April 25, 2005, 09:42:53 ; Search time 95 Seconds  
(without alignments)  
1352.183 Million cell updates/sec

Title: US-10-767-341-2

Perfect score: 2035

Sequence: 1 MGDTFIRHALLGFEKRVF.....ADLILNRCSESTKRLASAV 386

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1424015 seqs, 332791073 residues

Total number of hits satisfying chosen parameters: 1424015

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*

- 1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep.\*
- 4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep.\*
- 5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pep.\*
- 6: /cgn2\_6/ptodata/2/pubpaa/PCTUS\_PUBCOMB.pep.\*
- 7: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep.\*
- 8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep.\*
- 9: /cgn2\_6/ptodata/2/pubpaa/US09A\_PUBCOMB.pep.\*
- 10: /cgn2\_6/ptodata/2/pubpaa/US09B\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB.pep.\*
- 13: /cgn2\_6/ptodata/2/pubpaa/US10A\_PUBCOMB.pep.\*
- 14: /cgn2\_6/ptodata/2/pubpaa/US10B\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/2/pubpaa/US10D\_PUBCOMB.pep.\*
- 17: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/ptodata/2/pubpaa/US11\_NEW\_PUB.pep.\*
- 19: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*
- 20: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2035	100.0	386	14	US-10-109-856-2
2	2035	100.0	386	16	US-10-767-341-2
3	2023	99.4	390	16	US-10-755-889-451
4	2018	99.2	390	14	US-10-109-856-4
5	2018	99.2	390	15	US-10-418-036-18
6	2018	99.2	390	15	US-10-437-427-6
7	2018	99.2	390	16	US-10-767-341-4
8	2015	99.0	390	15	US-10-437-427-7
9	1696.5	83.4	389	15	US-10-437-427-4
10	1689.5	83.0	389	15	US-10-437-427-2
11	673	33.1	134	14	US-10-202-724-4
12	593	29.1	141	9	US-09-925-299-1221
13	593	29.1	141	10	US-09-925-299-1221

14	490.5	24.1	1138	15	US-10-161-927-60	Sequence 60, Appl
15	422	20.7	1054	15	US-10-034-749-2576	Sequence 2576, Ap
16	405.5	19.9	215	9	US-09-808-701A-21	Sequence 21, Appl
17	405.5	19.9	215	14	US-10-233-131-21	Sequence 21, Appl
18	405.5	19.9	215	15	US-10-240-145-73	Sequence 73, Appl
19	280	13.8	376	15	US-10-621-113-6	Sequence 6, Appli
20	280	13.8	268	9	US-09-764-868-721	Sequence 721, App
21	278.5	13.7	371	15	US-10-621-113-4	Sequence 4, Appli
22	271.5	13.3	375	15	US-10-621-113-8	Sequence 8, Appli
23	269.5	13.2	204	11	US-09-764-875-874	Sequence 874, App
24	269	13.2	370	15	US-10-621-113-2	Sequence 2, Appli
25	261	12.8	968	15	US-10-291-365-281	Sequence 281, App
26	193.5	9.5	117	15	US-10-240-145-159	Sequence 159, App
27	188	9.2	509	9	US-09-879-957-194	Sequence 194, App
28	188	9.2	509	16	US-10-807-856-194	Sequence 194, App
29	188	9.2	530	9	US-09-764-868-738	Sequence 738, App
30	188	9.2	990	11	US-09-764-875-774	Sequence 774, App
31	188	9.2	1681	15	US-10-398-885A-16	Sequence 16, Appl
32	178	8.7	348	15	US-10-418-036-22	Sequence 22, Appl
33	176.5	8.7	248	9	US-09-879-957-40	Sequence 40, Appl
34	176.5	8.7	248	16	US-10-807-856-40	Sequence 40, Appl
35	174	8.6	41	9	US-09-879-957-72	Sequence 72, Appl
36	174	8.6	41	16	US-10-807-856-72	Sequence 72, Appl
37	172.5	8.5	339	15	US-10-363-616-271	Sequence 271, App
38	172	8.5	326	15	US-10-363-616-272	Sequence 272, App
39	171	8.4	38	9	US-09-879-957-106	Sequence 106, App
40	171	8.4	38	16	US-10-807-856-106	Sequence 106, App
41	166	8.2	1459	16	US-10-408-765A-2246	Sequence 2246, Ap
42	164.5	8.1	491	9	US-09-939-825-21	Sequence 21, Appl
43	164.5	8.1	491	9	US-09-764-868-737	Sequence 737, App
44	164.5	8.1	491	11	US-09-764-875-907	Sequence 907, App
45	164.5	8.1	592	16	US-10-408-765A-2346	Sequence 2346, Ap

ALIGNMENTS

RESULT 1

US-10-109-856-2  
; Sequence 2, Application US/10109856  
; Publication No. US20030166185A1  
; GENERAL INFORMATION:  
; APPLICANT: SHAO, Wei et al.  
; TITLE OF INVENTION: ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC  
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES  
; TITLE OF INVENTION: THEREOF  
; FILE REFERENCE: CL001198DIV  
; CURRENT APPLICATION NUMBER: US/10/109,856  
; CURRENT FILING DATE: 2002-04-01  
; PRIOR APPLICATION NUMBER: 09/820,005  
; PRIOR FILING DATE: 2001-03-29  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2  
; LENGTH: 386  
; TYPE: PRT  
; ORGANISM: Homo sapien  
US-10-109-856-2

Query Match	100.0%	Score	2035	DB	14	Length	386
Best Local Similarity	100.0%	Pred. No.	2	2e-162			
Matches	386	Conservative	0	Mismatches	0	Indels	0
Gaps	0						
Qy	1	MGDTFIRHALLGFEKRVFVSQHYVYVFLVKWQDLSEKVVYRRFTEIYEFHKLKEMPEI	60				
Db	1	MGDTFIRHALLGFEKRVFVSQHYVYVFLVKWQDLSEKVVYRRFTEIYEFHKLKEMPEI	60				
Qy	61	EAGAINPENRIIPHPAPKWFQDGAARNRQGTITEYCSITMSLPTKISRCPHLLDFPKV	120				
Db	61	EAGAINPENRIIPHPAPKWFQDGAARNRQGTITEYCSITMSLPTKISRCPHLLDFPKV	120				
Qy	121	RPDDLKLPNTQTKKPEYLMFKGKSTATDITGPILOQTYRAJANYEKTSGSENAJSTG	180				
Db	121	RPDDLKLPNTQTKKPEYLMFKGKSTATDITGPILOQTYRAJANYEKTSGSENAJSTG	180				

Db 121 RPDDLKLPDNTQKKPETYLMKDGKSTATDITGPIILQTVRAIANYEKTSSEMA1STG 180  
QY 181 DVVEVEKSSGWMFQCMKAKRGWIPASFLPLEDSDPDETEDEPEPNYAGEPYVAIKAYTAV 240  
Db 181 DVVEVEKSSGWMFQCMKAKRGWIPASFLPLEDSDPDETEDEPEPNYAGEPYVAIKAYTAV 240  
QY 241 EGDVSVLLEGEAVEVHKLKDGKDDVTGVPFSPMYLQSGQDVSAQOQIKRGAPPRSS 300  
Db 241 EGDVSVLLEGEAVEVHKLKDGKDDVTGVPFSPMYLQSGQDVSAQOQIKRGAPPRSS 300  
QY 301 IRNAHSIHQRSKRLSQDAYRNSVRFLOQRROARPGQSPGSPGLEEERQTSKQPPA 360  
Db 301 IRNAHSIHQRSKRLSQDAYRNSVRFLOQRROARPGQSPGSPGLEEERQTSKQPPA 360  
QY 361 VPPRPSADLIILNRCSESTKRLASAV 386  
Db 361 VPPRPSADLIILNRCSESTKRLASAV 386

RESULT 2  
US-10-767-341-2  
; Sequence 2, Application US/10767341  
; Publication No. US20040132084A1  
; GENERAL INFORMATION:  
; APPLICANT: SHAO, Wei et al.  
; TITLE OF INVENTION: ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC  
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES  
; FILE REFERENCE: CL001198DIV-II  
; CURRENT APPLICATION NUMBER: US/10767,341  
; CURRENT FILING DATE: 2004-01-30  
; PRIOR APPLICATION NUMBER: 09/820,005  
; PRIOR FILING DATE: 2001-03-29  
; PRIOR APPLICATION NUMBER: 10/109,856  
; PRIOR FILING DATE: 2002-04-01  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2  
; LENGTH: 386  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-767-341-2

Query Match 100.08; Score 2035; DB 16; Length 386;  
Best Local Similarity 100.08; Pred. No. 2.2e-162;  
Matches 386; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGDTFIRHIALGPEKRFVPSQHYVMFLVKWQDLSEKVVYRRFTEIYEFHKLKEMFPI 60  
Db 1 MGDTFIRHIALGPEKRFVPSQHYVMFLVKWQDLSEKVVYRRFTEIYEFHKLKEMFPI 60  
QY 61 EAGAINPENRIIPLHAPKWFQDQRAAENRQGTITCYCSTLMSLPTKISRCPHLLDPFKV 120  
Db 61 EAGAINPENRIIPLHAPKWFQDQRAAENRQGTITCYCSTLMSLPTKISRCPHLLDPFKV 120  
QY 121 RPDDLKLPDNTQKKPETYLMKDGKSTATDITGPIILQTVRAIANYEKTSSEMA1STG 180  
Db 121 RPDDLKLPDNTQKKPETYLMKDGKSTATDITGPIILQTVRAIANYEKTSSEMA1STG 180  
QY 181 DVVEVEKSSGWMFQCMKAKRGWIPASFLPLEDSDPDETEDEPEPNYAGEPYVAIKAYTAV 240  
Db 181 DVVEVEKSSGWMFQCMKAKRGWIPASFLPLEDSDPDETEDEPEPNYAGEPYVAIKAYTAV 240  
QY 241 EGDVSVLLEGEAVEVHKLKDGKDDVTGVPFSPMYLQSGQDVSAQOQIKRGAPPRSS 300  
Db 241 EGDVSVLLEGEAVEVHKLKDGKDDVTGVPFSPMYLQSGQDVSAQOQIKRGAPPRSS 300  
QY 301 IRNAHSIHQRSKRLSQDAYRNSVRFLOQRROARPGQSPGSPGLEEERQTSKQPPA 360  
Db 301 IRNAHSIHQRSKRLSQDAYRNSVRFLOQRROARPGQSPGSPGLEEERQTSKQPPA 360  
QY 361 VPPRPSADLIILNRCSESTKRLASAV 386  
Db 361 VPPRPSADLIILNRCSESTKRLASAV 386

Db 361 VPPRPSADLIILNRCSESTKRLASAV 386

RESULT 3  
US-10-755-889-451  
; Sequence 451, Application US/10755889  
; Publication No. US20040171823A1  
; GENERAL INFORMATION:  
; APPLICANT: Bristol-Myers Squibb Company  
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES ASSOCIATED WITH THE NF-kB  
; TITLE OF INVENTION: PATHWAY  
; FILE REFERENCE: D0284 NP  
; CURRENT APPLICATION NUMBER: US/10755,889  
; CURRENT FILING DATE: 2004-01-13  
; PRIOR APPLICATION NUMBER: U.S. 60/440,068  
; PRIOR FILING DATE: 2003-01-14  
; PRIOR APPLICATION NUMBER: U.S. 60/469,757  
; PRIOR FILING DATE: 2003-05-12  
; NUMBER OF SEQ ID NOS: 823  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 451  
; LENGTH: 390  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-755-889-451

Query Match 99.48; Score 2023; DB 16; Length 390;  
Best Local Similarity 99.08; Pred. No. 2.3e-161;  
Matches 386; Conservative 0; Mismatches 0; Indels 4; Gaps 1;

QY 1 MGDTFIRHIALGPEKRFVPSQHYVMFLVKWQDLSEKVVYRRFTEIYEFHKLKEMFPI 60  
Db 1 MGDTFIRHIALGPEKRFVPSQHYVMFLVKWQDLSEKVVYRRFTEIYEFHKLKEMFPI 60  
QY 61 EAGAINPENRIIPLHAPKWFQDQRAAENRQGTITCYCSTLMSLPTKISRCPHLLDPFKV 120  
Db 61 EAGAINPENRIIPLHAPKWFQDQRAAENRQGTITCYCSTLMSLPTKISRCPHLLDPFKV 120  
QY 121 RPDDLKLPDNTQKKPETYLMKDGKSTATDITGPIILQTVRAIANYEKTSSEMA1STG 180  
Db 121 RPDDLKLPDNTQKKPETYLMKDGKSTATDITGPIILQTVRAIANYEKTSSEMA1STG 180  
QY 181 DVVEVEKSSGWMFQCMKAKRGWIPASFLPLEDSDPDETEDEPEPNYAGEPYVAIKAYTAV 240  
Db 181 DVVEVEKSSGWMFQCMKAKRGWIPASFLPLEDSDPDETEDEPEPNYAGEPYVAIKAYTAV 240  
QY 241 EGDVSVLLEGEAVEVHKLKDGW----KDDVTGYFSPMYLQSGQDVSAQOQIKRGAPP 296  
Db 241 EGDVSVLLEGEAVEVHKLKDGWVIRKDDVTGYFSPMYLQSGQDVSAQOQIKRGAPP 300  
QY 297 RSSIRNAHSIHQRSKRLSQDAYRNSVRFLOQRROARPGQSPGSPGLEEERQTSK 356  
Db 301 RSSIRNAHSIHQRSKRLSQDAYRNSVRFLOQRROARPGQSPGSPGLEEERQTSK 360  
QY 357 POPAVPPRPSADLIILNRCSESTKRLASAV 386  
Db 361 POPAVPPRPSADLIILNRCSESTKRLASAV 390

RESULT 4  
US-10-109-856-4  
; Sequence 4, Application US/10109856  
; Publication No. US20030166185A1  
; GENERAL INFORMATION:  
; APPLICANT: SHAO, Wei et al.  
; TITLE OF INVENTION: ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC  
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES  
; FILE REFERENCE: CL001198DIV  
; CURRENT APPLICATION NUMBER: US/10109,856  
; CURRENT FILING DATE: 2002-04-01  
; PRIOR APPLICATION NUMBER: 09/820,005  
; PRIOR FILING DATE: 2001-03-29

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; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-109-856-4

Query Match
Best Local Similarity 99.2%; Score 2018; DB 14; Length 390;
Matches 385; Conservative 1; Mismatches 0; Indels 4; Gaps 1;

QY 1 MGDTFIRHIALGFEKRFVPSQHYVYVFLVWKQDLSEKVVYRFTIYEFHKTLEKMFPI 60
DB 1 MGDTFIRHIALGFEKRFVPSQHYVYVFLVWKQDLSEKVVYRFTIYEFHKTLEKMFPI 60

QY 61 EAGAINPENRIIPHLPAKWFQDQRAAENRQGLTTEYCSLMSLPTKISRCPHLLDFFKV 120
DB 61 EAGAINPENRIIPHLPAKWFQDQRAAENRQGLTTEYCSLMSLPTKISRCPHLLDFFKV 120

QY 121 RPDDLKLPDNTQTKPETIYMPKDGKSTATDITGPILQTYRAIANYEKTSGSEMASTG 180
DB 121 RPDDLKLPDNTQTKPETIYMPKDGKSTATDITGPILQTYRAIANYEKTSGSEMASTG 180

QY 181 DUVEVVEKSESGWFWCOMKAKGWIIPASFLPLELDSDETEDEPNYAGPYVAIKAYTAV 240
DB 181 DUVEVVEKSESGWFWCOMKAKGWIIPASFLPLELDSDETEDEPNYAGPYVAIKAYTAV 240

QY 241 EGDEVSLLEGEAVEVTHKLLDGN-----KDDVTGYFPFMSYVLOKSGQDVSOAQRQIKRGAPP 296
DB 241 EGDEVSLLEGEAVEVTHKLLDGNWVIRKDDVTGYFPFMSYVLOKSGQDVSOAQRQIKRGAPP 300

QY 297 RRSSIRNAHSIHQSRKRLSQDAYRRNSVRFLQORRRQARPGPQSPGSPLEERQTORSK 356
DB 297 RRSSIRNAHSIHQSRKRLSQDAYRRNSVRFLQORRRQARPGPQSPGSPLEERQTORSK 360

QY 357 PQPAVPPRPSADLILNRCSESTKRLASAV 386
DB 361 PQPAVPPRPSADLILNRCSESTKRLASAV 390

RESULT 5
US-10-418-036-18
; Sequence 18, Application US/10418036
; Publication No. US20030225117A1
; GENERAL INFORMATION:
; APPLICANT: Gronberg, Alvar
; APPLICANT: Wikstrom, Per
; TITLE OF INVENTION: NEW USE
; FILE REFERENCE: 13425-110001
; CURRENT APPLICATION NUMBER: US/10/418,036
; CURRENT FILING DATE: 2003-04-17
; PRIOR APPLICATION NUMBER: SE 0201152-6
; PRIOR FILING DATE: 2002-04-17
; PRIOR APPLICATION NUMBER: US 60/410,626
; PRIOR FILING DATE: 2002-09-13
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-418-036-18

Query Match
Best Local Similarity 99.2%; Score 2018; DB 15; Length 390;
Matches 385; Conservative 1; Mismatches 0; Indels 4; Gaps 1;

QY 1 MGDTFIRHIALGFEKRFVPSQHYVYVFLVWKQDLSEKVVYRFTIYEFHKTLEKMFPI 60
DB 1 MGDTFIRHIALGFEKRFVPSQHYVYVFLVWKQDLSEKVVYRFTIYEFHKTLEKMFPI 60

QY 61 EAGAINPENRIIPHLPAKWFQDQRAAENRQGLTTEYCSLMSLPTKISRCPHLLDFFKV 120
DB 61 EAGAINPENRIIPHLPAKWFQDQRAAENRQGLTTEYCSLMSLPTKISRCPHLLDFFKV 120

QY 121 RPDDLKLPDNTQTKPETIYMPKDGKSTATDITGPILQTYRAIANYEKTSGSEMASTG 180
DB 121 RPDDLKLPDNTQTKPETIYMPKDGKSTATDITGPILQTYRAIANYEKTSGSEMASTG 180

QY 181 DUVEVVEKSESGWFWCOMKAKGWIIPASFLPLELDSDETEDEPNYAGPYVAIKAYTAV 240
DB 181 DUVEVVEKSESGWFWCOMKAKGWIIPASFLPLELDSDETEDEPNYAGPYVAIKAYTAV 240

QY 241 EGDEVSLLEGEAVEVTHKLLDGN-----KDDVTGYFPFMSYVLOKSGQDVSOAQRQIKRGAPP 296
DB 241 EGDEVSLLEGEAVEVTHKLLDGNWVIRKDDVTGYFPFMSYVLOKSGQDVSOAQRQIKRGAPP 300

QY 297 RRSSIRNAHSIHQSRKRLSQDAYRRNSVRFLQORRRQARPGPQSPGSPLEERQTORSK 356
DB 297 RRSSIRNAHSIHQSRKRLSQDAYRRNSVRFLQORRRQARPGPQSPGSPLEERQTORSK 360

QY 357 PQPAVPPRPSADLILNRCSESTKRLASAV 386
DB 361 PQPAVPPRPSADLILNRCSESTKRLASAV 390

RESULT 6
US-10-437-427-6
; Sequence 6, Application US/10437427
; Publication No. US2004000901A1
; GENERAL INFORMATION:
; APPLICANT: Rikard Holmdahl
; APPLICANT: Peter Olofsson
; TITLE OF INVENTION: Autoimmune Conditions and NADPH Oxidase
; FILE REFERENCE: 11145-024001
; CURRENT APPLICATION NUMBER: US/10/437,427
; CURRENT FILING DATE: 2003-05-13
; PRIOR APPLICATION NUMBER: US 60/380,904
; PRIOR FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: US 60/429,609
; PRIOR FILING DATE: 2002-11-27
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-437-427-6

Query Match
Best Local Similarity 99.2%; Score 2018; DB 15; Length 390;
Matches 385; Conservative 1; Mismatches 0; Indels 4; Gaps 1;

QY 1 MGDTFIRHIALGFEKRFVPSQHYVYVFLVWKQDLSEKVVYRFTIYEFHKTLEKMFPI 60
DB 1 MGDTFIRHIALGFEKRFVPSQHYVYVFLVWKQDLSEKVVYRFTIYEFHKTLEKMFPI 60

QY 61 EAGAINPENRIIPHLPAKWFQDQRAAENRQGLTTEYCSLMSLPTKISRCPHLLDFFKV 120
DB 61 EAGAINPENRIIPHLPAKWFQDQRAAENRQGLTTEYCSLMSLPTKISRCPHLLDFFKV 120

QY 121 RPDDLKLPDNTQTKPETIYMPKDGKSTATDITGPILQTYRAIANYEKTSGSEMASTG 180
DB 121 RPDDLKLPDNTQTKPETIYMPKDGKSTATDITGPILQTYRAIANYEKTSGSEMASTG 180

QY 181 DUVEVVEKSESGWFWCOMKAKGWIIPASFLPLELDSDETEDEPNYAGPYVAIKAYTAV 240
DB 181 DUVEVVEKSESGWFWCOMKAKGWIIPASFLPLELDSDETEDEPNYAGPYVAIKAYTAV 240

QY 241 EGDEVSLLEGEAVEVTHKLLDGN-----KDDVTGYFPFMSYVLOKSGQDVSOAQRQIKRGAPP 296
DB 241 EGDEVSLLEGEAVEVTHKLLDGNWVIRKDDVTGYFPFMSYVLOKSGQDVSOAQRQIKRGAPP 300

QY 297 RRSSIRNAHSIHQSRKRLSQDAYRRNSVRFLQORRRQARPGPQSPGSPLEERQTORSK 356
DB 297 RRSSIRNAHSIHQSRKRLSQDAYRRNSVRFLQORRRQARPGPQSPGSPLEERQTORSK 360
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Db 301 RRSIRNAHSIHQRSRKLSQDAYRNSVRFLQRRRQARPQSPGSPLEERQORSK 360
QY 357 POPAVPPRPSADLIILNRCSESTKRKLASAV 386
Db 361 POPAVPPRPSADLIILNRCSESTKRKLASAV 390

RESULT 7
US-10-767-341-4
; Sequence 4, Application US/10767341
; Publication No. US20040132084A1
; GENERAL INFORMATION:
; APPLICANT: SHAO, Wei et al.
; TITLE OF INVENTION: ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES
; FILE REFERENCE: CLO01198DIV-II
; CURRENT APPLICATION NUMBER: US/10/767,341
; PRIOR FILING DATE: 2004-01-30
; PRIOR APPLICATION NUMBER: 09/820,005
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 10/109,856
; PRIOR FILING DATE: 2002-04-01
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-767-341-4
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Query Match 99.2%; Score 2018; DB 16; Length 390;
Best Local Similarity 98.7%; Pred. No. 6e-161;
Matches 385; Conservative 1; Mismatches 0; Indels 4; Gaps 1;

QY 1 MGDTFIRHIALGFEKRFVPSQHYVYVFLVKKWQDLSEKVVYRFRFTIYEFHFKTLKEMFPI 60
Db 1 MGDTFIRHIALGFEKRFVPSQHYVYVFLVKKWQDLSEKVVYRFRFTIYEFHFKTLKEMFPI 60
QY 61 EAGAINPENRIIPLHPAPKWFQDQRAAENRQGLTTEYCSLTMSLPTKISRCPHLLDFFKV 120
Db 61 EAGAINPENRIIPLHPAPKWFQDQRAAENRQGLTTEYCSLTMSLPTKISRCPHLLDFFKV 120
QY 121 RPDDLKLPDNTQTKPETIYMPKDGKSTATDITGPILQTYRAIANYEKTSSEMALSTG 180
Db 121 RPDDLKLPDNTQTKPETIYMPKDGKSTATDITGPILQTYRAIANYEKTSSEMALSTG 180
QY 181 DVVEVVEKSESGWFCOMKAKRGWIPASFLPLDSPDETDPENYAGPYVAIKAYTAV 240
Db 181 DVVEVVEKSESGWFCOMKAKRGWIPASFLPLDSPDETDPENYAGPYVAIKAYTAV 240
QY 241 EGDEVSLLGEAVEVTHKLLDQW----KDDVTGYFPSPMYLQSGQDVSOAQRIKRGAPP 296
Db 241 EGDEVSLLGEAVEVTHKLLDQW----KDDVTGYFPSPMYLQSGQDVSOAQRIKRGAPP 300
QY 297 RRSIRNAHSIHQRSRKLSQDAYRNSVRFLQRRRQARPQSPGSPLEERQORSK 356
Db 297 RRSIRNAHSIHQRSRKLSQDAYRNSVRFLQRRRQARPQSPGSPLEERQORSK 360
QY 301 POPAVPPRPSADLIILNRCSESTKRKLASAV 386
Db 301 POPAVPPRPSADLIILNRCSESTKRKLASAV 390
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RESULT 8
US-10-437-427-7
; Sequence 7, Application US/10437427
; Publication No. US2004009901A1
; GENERAL INFORMATION:
; APPLICANT: Rikard Olofsson
; TITLE OF INVENTION: Autoimmune Conditions and NADPH Oxidase
```

```
; TITLE OF INVENTION: Defects
; FILE REFERENCE: 11145-024001
; CURRENT APPLICATION NUMBER: US/10/437,427
; CURRENT FILING DATE: 2003-05-13
; PRIOR APPLICATION NUMBER: US 60/380,904
; PRIOR FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: US 60/429,609
; PRIOR FILING DATE: 2002-11-27
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-437-427-7

Query Match 99.0%; Score 2015; DB 15; Length 390;
Best Local Similarity 98.5%; Pred. No. 1.1e-160;
Matches 384; Conservative 1; Mismatches 1; Indels 4; Gaps 1;

QY 1 MGDTFIRHIALGFEKRFVPSQHYVYVFLVKKWQDLSEKVVYRFRFTIYEFHFKTLKEMFPI 60
Db 1 MGDTFIRHIALGFEKRFVPSQHYVYVFLVKKWQDLSEKVVYRFRFTIYEFHFKTLKEMFPI 60
QY 61 EAGAINPENRIIPLHPAPKWFQDQRAAENRQGLTTEYCSLTMSLPTKISRCPHLLDFFKV 120
Db 61 EAGAINPENRIIPLHPAPKWFQDQRAAENRQGLTTEYCSLTMSLPTKISRCPHLLDFFKV 120
QY 121 RPDDLKLPDNTQTKPETIYMPKDGKSTATDITGPILQTYRAIANYEKTSSEMALSTG 180
Db 121 RPDDLKLPDNTQTKPETIYMPKDGKSTATDITGPILQTYRAIANYEKTSSEMALSTG 180
QY 181 DVVEVVEKSESGWFCOMKAKRGWIPASFLPLDSPDETDPENYAGPYVAIKAYTAV 240
Db 181 DVVEVVEKSESGWFCOMKAKRGWIPASFLPLDSPDETDPENYAGPYVAIKAYTAV 240
QY 241 EGDEVSLLGEAVEVTHKLLDQW----KDDVTGYFPSPMYLQSGQDVSOAQRIKRGAPP 296
Db 241 EGDEVSLLGEAVEVTHKLLDQW----KDDVTGYFPSPMYLQSGQDVSOAQRIKRGAPP 300
QY 297 RRSIRNAHSIHQRSRKLSQDAYRNSVRFLQRRRQARPQSPGSPLEERQORSK 356
Db 297 RRSIRNAHSIHQRSRKLSQDAYRNSVRFLQRRRQARPQSPGSPLEERQORSK 360
QY 301 POPAVPPRPSADLIILNRCSESTKRKLASAV 386
Db 301 POPAVPPRPSADLIILNRCSESTKRKLASAV 390
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RESULT 9
US-10-437-427-4
; Sequence 4, Application US/10437427
; Publication No. US2004009901A1
; GENERAL INFORMATION:
; APPLICANT: Rikard Olofsson
; APPLICANT: Peter Holmdahl
; TITLE OF INVENTION: Autoimmune Conditions and NADPH Oxidase
; TITLE OF INVENTION: Defects
; FILE REFERENCE: 11145-024001
; CURRENT APPLICATION NUMBER: US/10/437,427
; CURRENT FILING DATE: 2003-05-13
; PRIOR APPLICATION NUMBER: US 60/380,904
; PRIOR FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: US 60/429,609
; PRIOR FILING DATE: 2002-11-27
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 389
; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-10-437-427-4
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Query Match      83.4%; Score 1696.5; DB 15; Length 389;
Best Local Similarity 81.3%; Pred. No. 6.2e-134;
Matches 318; Conservative 34; Mismatches 32; Indels 7; Gaps 3;

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DB 1 MGDFTIRHIALGFEKRFVPSQHYVYMFVWKQDLSEKVVYRFTIYEFHKTLEMFPI 60

QY 61 EAGAIINPENRIIPLHAPKWFQDQRAAENRQGLTYCYTSLMSLPKISRCPHLLDFFKV 120
DB 61 EAGEIHTEENRVIPLHAPRWYDQRAAESRQGLTYCYTSLMSLPKISRCPHLLDFFKV 120

QY 121 RPDDLKLPDNOQKPKETYLMPKDGKSTADITGPIILOTYRAIANYEKTSGSEMASTG 180
DB 121 RPDDLKLPDNOQKPKETYLMPKDGKSTADITGPIILOTYRAIANYEKTSGSEMASTG 180

QY 181 DVVEVVEKESGWFQCMKAKRGWIPASFLPLELDSDEPDPNPYAGPYVAIKAYTAV 240
DB 181 DVVDVVEKESGWFQCMKAKRGWIPASFLPLELDSDEPDPNPYAGPYVAIKAYTAV 240

QY 241 EGDEVSLLEGEAVEVHKLDDGW---KDDVTGYFFPSMYLQKSGQDVSOAQROIK-RGAP 295
DB 241 EDEVSLSGEAEVHKLDDGWVVRKGDITGYFFPSMYLQKAGEBITQAQRQIRSGAP 300

QY 296 PRSSIRNAHSIHQSRKRLSQDAYRNSVRFLQORRRQARPOQSPGSPLEBEROTQRS 355
DB 301 PRSTIRNAQSIHQSRKRLSQDYTYRNSVRFLQORRRPARPQSPDS--KONPSTPRA 358

QY 356 KPQAPVPPRPSADLIINRCSESTKRLASAV 386
DB 359 KPQAPVPPRPSDILHRCSTESTKRLTSAV 389

RESULT 10
US-10-437-427-2
; Sequence 2, Application US/10437427
; Publication No. US20040009901A1
; GENERAL INFORMATION:
; APPLICANT: Rikard Holmdahl
; APPLICANT: Peter Olofsson
; TITLE OF INVENTION: Autoimmune Conditions and NADPH Oxidase
; TITLE OF INVENTION: Defects
; FILE REFERENCE: 11145-024001
; CURRENT APPLICATION NUMBER: US/10/437,427
; CURRENT FILING DATE: 2003-05-13
; PRIOR APPLICATION NUMBER: US 60/380,904
; PRIOR FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: US 60/429,609
; PRIOR FILING DATE: 2002-11-27
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 389
; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-10-437-427-2

Query Match      83.0%; Score 1689.5; DB 15; Length 389;
Best Local Similarity 81.1%; Pred. No. 2.4e-133;
Matches 317; Conservative 34; Mismatches 33; Indels 7; Gaps 3;

QY 1 MGDFTIRHIALGFEKRFVPSQHYVYMFVWKQDLSEKVVYRFTIYEFHKTLEMFPI 60
DB 1 MGDFTIRHIALGFEKRFVPSQHYVYMFVWKQDLSEKVVYRFTIYEFHKTLEMFPI 60

QY 61 EAGAIINPENRIIPLHAPKWFQDQRAAENRQGLTYCYTSLMSLPKISRCPHLLDFFKV 120
DB 61 EAGEIHTEENRVIPLHAPRWYDQRAAESRQGLTYCYTSLMSLPKISRCPHLLDFFKV 120

QY 121 RPDDLKLPDNOQKPKETYLMPKDGKSTADITGPIILOTYRAIANYEKTSGSEMASTG 180
DB 121 RPDDLKLPDNOQKPKETYLMPKDGKSTADITGPIILOTYRAIANYEKTSGSEMASTG 180

QY 181 DVVEVVEKESGWFQCMKAKRGWIPASFLPLELDSDEPDPNPYAGPYVAIKAYTAV 240
DB 181 DVVDVVEKESGWFQCMKAKRGWIPASFLPLELDSDEPDPNPYAGPYVAIKAYTAV 240

QY 241 EGDEVSLLEGEAVEVHKLDDGW---KDDVTGYFFPSMYLQKSGQDVSOAQROIK-RGAP 295
DB 241 EDEVSLSGEAEVHKLDDGWVVRKGDITGYFFPSMYLQKAGEBITQAQRQIRSGAP 300

QY 296 PRSSIRNAHSIHQSRKRLSQDAYRNSVRFLQORRRQARPOQSPGSPLEBEROTQRS 355
DB 301 PRSTIRNAQSIHQSRKRLSQDYTYRNSVRFLQORRRPARPQSPDS--KONPSTPRA 358

QY 356 KPQAPVPPRPSADLIINRCSESTKRLASAV 386
DB 359 KPQAPVPPRPSDILHRCSTESTKRLTSAV 389

RESULT 11
US-10-202-724-4
; Sequence 4, Application US/10202724
; Publication No. US20030108975A1
; GENERAL INFORMATION:
; APPLICANT: Warner Lambert Company
; TITLE OF INVENTION: Method for the screening of compounds that inhibit the
; TITLE OF INVENTION: interaction between a proline-rich peptide and a SH3
; FILE REFERENCE: HTRF-SH3 Domains - Warner Lambert
; CURRENT APPLICATION NUMBER: US/10/202,724
; CURRENT FILING DATE: 2002-07-24
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 134
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-202-724-4

Query Match      33.1%; Score 673; DB 14; Length 134;
Best Local Similarity 96.3%; Pred. No. 1.5e-48;
Matches 129; Conservative 1; Mismatches 0; Indels 4; Gaps 1;

QY 151 DITGPILLOTYRAIANYEKTSGSEMASTGDDVVVEVVEKESGWFQCMKAKRGWIPASFL 210
DB 1 DITGPILLOTYRAIANYEKTSGSEMASTGDDVVVEVVEKESGWFQCMKAKRGWIPASFL 60

QY 211 EPLDSDPDEDPNPYAGPYVAIKAYTAVGEDEVSLLEGEAVEVHKLDDGW---KOD 266
DB 61 EPLDSDPDEDPNPYAGPYVAIKAYTAVGEDEVSLLEGEAVEVHKLDDGWVIRKOD 120

QY 267 VTGYFFPSMYLQKSG 280
DB 121 VTGYFFPSMYLQKSG 134

RESULT 12
US-09-925-299-1221
; Sequence 1221, Application US/09925299
; Patent No. US20020055627A1
; GENERAL INFORMATION:
; APPLICANT: Rozen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA102
; CURRENT APPLICATION NUMBER: US/09/925,299
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05883
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1556
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1221
; LENGTH: 141
; TYPE: PRT
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OM protein - protein search, using sw model

Run on: April 25, 2005, 08:47:17 ; Search time 57 Seconds  
(without alignments)  
505.518 Million cell updates/sec

Title: US-10-767-341-2  
Perfect score: 2035  
Sequence: 1 MGDTFIRHIALLGFEKRFVP.....ADILNRCSESTRKKLASAV 386

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2035	100.0	386	4	US-09-820-005-2
2	2035	100.0	386	4	US-10-109-856-2
3	2018	99.2	390	4	US-09-820-005-4
4	2018	99.2	390	4	US-10-109-856-4
5	405.5	19.9	215	4	US-09-808-701A-21
6	310	15.2	60	4	US-09-006-428A-10
7	310	15.2	60	4	US-09-615-387C-10
8	281	13.8	60	4	US-09-006-428A-13
9	281	13.8	60	4	US-09-615-387C-13
10	239	11.7	52	4	US-09-079-030-27
11	188	9.2	509	3	US-08-630-915A-194
12	188	9.2	509	4	US-09-879-957-194
13	188	9.2	1676	4	US-09-949-016-7610
14	176.5	8.7	248	3	US-08-630-915A-40
15	176.5	8.7	248	4	US-09-879-957-40
16	174	8.6	41	3	US-08-630-915A-72
17	174	8.6	41	4	US-09-879-957-72
18	171	8.4	38	3	US-08-630-915A-106
19	171	8.4	38	4	US-09-879-957-106
20	164.5	8.1	639	4	US-09-949-016-6812
21	164.5	8.1	652	4	US-09-949-016-7323
22	157	7.7	462	3	US-08-630-915A-38
23	157	7.7	462	4	US-09-879-957-38
24	157	7.7	520	4	US-09-538-092-1347
25	147.5	7.2	324	1	US-08-475-894-6
26	147.5	7.2	324	1	US-08-484-710-6
27	147.5	7.2	324	2	US-08-484-709-6

28	147.5	7.2	324	3	US-08-474-697-6	Sequence 6, Appli
29	144	7.1	464	1	US-08-475-894-4	Sequence 4, Appli
30	144	7.1	464	1	US-08-484-710-4	Sequence 4, Appli
31	144	7.1	464	2	US-08-484-709-4	Sequence 4, Appli
32	144	7.1	464	3	US-08-474-697-4	Sequence 4, Appli
33	141	6.9	553	1	US-08-475-894-2	Sequence 2, Appli
34	141	6.9	553	1	US-08-484-710-2	Sequence 2, Appli
35	141	6.9	553	2	US-08-484-709-2	Sequence 2, Appli
36	141	6.9	553	3	US-08-474-697-2	Sequence 2, Appli
37	141	6.9	659	4	US-08-671-354-2	Sequence 2, Appli
38	137.5	6.8	307	4	US-09-248-796A-20530	Sequence 20530, A
39	137.5	6.8	397	4	US-09-006-428A-2	Sequence 2, Appli
40	137.5	6.8	397	4	US-09-006-428A-19	Sequence 19, Appli
41	137.5	6.8	397	4	US-09-615-387C-2	Sequence 2, Appli
42	137.5	6.8	397	4	US-09-615-387C-19	Sequence 19, Appli
43	137.5	6.8	416	4	US-09-006-428A-1	Sequence 1, Appli
44	137.5	6.8	416	4	US-09-006-428A-17	Sequence 17, Appli
45	137.5	6.8	416	4	US-09-710-693-1	Sequence 1, Appli

#### ALIGNMENTS

##### RESULT 1

US-09-820-005-2

; Sequence 2, Application US/09820005

; Patent No. 6489149

; GENERAL INFORMATION:

; APPLICANT: SHAO, Wei et al

; TITLE OF INVENTION: ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC

; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USBS

; FILE REFERENCE: CL001198

; CURRENT APPLICATION NUMBER: US/09/820,005

; CURRENT FILING DATE: 2001-03-29

; NUMBER OF SEQ ID NOS: 4

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 2

; LENGTH: 386

; TYPE: PRT

; ORGANISM: Human

US-09-820-005-2

Query Match 100.0%; Score 2035; DB 4; Length 386;  
Best Local Similarity 100.0%; Pred. No. 4.4e-193;  
Matches 386; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy	61	EAGAINPENRIIPHPAPKWFQDQRAAENRQGLTEYCSLMSLPTKISRCPHLLDFPKV	120
Db	61	EAGAINPENRIIPHPAPKWFQDQRAAENRQGLTEYCSLMSLPTKISRCPHLLDFPKV	120
Qy	121	RPDDLPTDNTQKKPETYLMKDGKSTADITGPILQTYRAIYANYEKTSGSEMA1STG	180
Db	121	RPDDLPTDNTQKKPETYLMKDGKSTADITGPILQTYRAIYANYEKTSGSEMA1STG	180
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Db	181	DVVEVVEKSSGWNFCMKAKRGWIPASFLEPLDSPDETDPENYAGEPYVAIKATAV	240
Qy	241	EGDEVSLLEGEAEVVEVHKLDDGKDDVTGVFPSPMYLQKSGQDVSOAQRQIKRGAPPRSS	300
Db	241	EGDEVSLLEGEAEVVEVHKLDDGKDDVTGVFPSPMYLQKSGQDVSOAQRQIKRGAPPRSS	300
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Db	301	IRNAHSIHQRSRKRLSQDAYRRNSVRFLOQRRQARPGQSPGSPLEERQTKRQKQPA	360
Qy	361	VPPRPSADLILNRCSESTRKKLASAV	386
Db	361	VPPRPSADLILNRCSESTRKKLASAV	386

Db	361	VPPRPSADLILNRCSESTKRLASAV	386
RESULT 2			
US-10-109-856-2			
; Sequence 2, Application US/10109856			
; Patent No. 6709850			
; ORGANISM: Human			
; GENERAL INFORMATION:			
; APPLICANT: SHAO, Wei et al.			
; TITLE OF INVENTION: ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC			
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES			
; TITLE OF INVENTION: THEREOF			
; FILE REFERENCE: CL001198DIV			
; CURRENT APPLICATION NUMBER: US/10/109,856			
; CURRENT FILING DATE: 2002-04-01			
; PRIOR APPLICATION NUMBER: 09/820,005			
; PRIOR FILING DATE: 2001-03-29			
; NUMBER OF SEQ ID NOS: 4			
; SOFTWARE: FastSeq for Windows Version 4.0			
; SEQ ID NO 2			
; LENGTH: 386			
; TYPE: PRT			
; ORGANISM: Homo sapien			
US-10-109-856-2			
Query Match			
Best Local Similarity 100.0%; Score 2035; DB 4; Length 386;			
Matches 386; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
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Db	1	MGDTFIRHIALLGFEKRFVPSQHYVYVFLVKWQDLSEKVVYRRTETIYEFHKLKEMFPI	60
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QY	121	RPDDLKLPDNTQTKPETILMPKDGKSTATDITGPIILQTYRAIANYEKTSGSEMA1STG	180
Db	121	RPDDLKLPDNTQTKPETILMPKDGKSTATDITGPIILQTYRAIANYEKTSGSEMA1STG	180
QY	181	DVVEVVEKSESGWFCOMKAKRWIPASFLFPLDSDPDETPNPYAGEPYVAIKAYTAV	240
Db	181	DVVEVVEKSESGWFCOMKAKRWIPASFLFPLDSDPDETPNPYAGEPYVAIKAYTAV	240
QY	241	EGDEVSLLEGEAVEVIHKLIDGW----KDDVTGYPFSPMYLQKSGQDVSOAQROIKRGAPP	296
Db	241	EGDEVSLLEGEAVEVIHKLIDGWVWIRKDDVTGYPFSPMYLQKSGQDVSOAQROIKRGAPP	300
QY	297	RRSIRNAHSIHORSKRILSODAYRNRVRFLOQRROARPGQSPGSPLEEROTQSK	356
Db	301	RRSIRNAHSIHORSKRILSODAYRNRVRFLOQRROARPGQSPGSPLEEROTQSK	360
QY	357	PQAVPRPSADLILNRCSESTKRLASAV	386
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RESULT 4			
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; Sequence 4, Application US/10109856			
; Patent No. 6709850			
; ORGANISM: Human			
; GENERAL INFORMATION:			
; APPLICANT: SHAO, Wei et al.			
; TITLE OF INVENTION: ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC			
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES			
; TITLE OF INVENTION: THEREOF			
; FILE REFERENCE: CL001198DIV			
; CURRENT APPLICATION NUMBER: US/10/109,856			
; CURRENT FILING DATE: 2002-04-01			
; PRIOR APPLICATION NUMBER: 09/820,005			
; PRIOR FILING DATE: 2001-03-29			
; NUMBER OF SEQ ID NOS: 4			
; SOFTWARE: FastSeq for Windows Version 4.0			
; SEQ ID NO 4			
; LENGTH: 390			
; TYPE: PRT			
; ORGANISM: Homo sapien			
US-10-109-856-4			
Query Match			
Best Local Similarity 99.2%; Score 2018; DB 4; Length 390;			
Matches 385; Conservative 1; Mismatches 0; Indels 4; Gaps 1;			
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Db	1	MGDTFIRHIALLGFEKRFVPSQHYVYVFLVKWQDLSEKVVYRRTETIYEFHKLKEMFPI	60
QY	61	EAGAINPENRIIPHLPAKWFQDQRAAENRQGTITGPIILQTYRAIANYEKTSGSEMA1STG	120
Db	61	EAGAINPENRIIPHLPAKWFQDQRAAENRQGTITGPIILQTYRAIANYEKTSGSEMA1STG	120
QY	121	RPDDLKLPDNTQTKPETILMPKDGKSTATDITGPIILQTYRAIANYEKTSGSEMA1STG	180
Db	121	RPDDLKLPDNTQTKPETILMPKDGKSTATDITGPIILQTYRAIANYEKTSGSEMA1STG	180
QY	181	DVVEVVEKSESGWFCOMKAKRWIPASFLFPLDSDPDETPNPYAGEPYVAIKAYTAV	240
Db	181	DVVEVVEKSESGWFCOMKAKRWIPASFLFPLDSDPDETPNPYAGEPYVAIKAYTAV	240
QY	241	EGDEVSLLEGEAVEVIHKLIDGW----KDDVTGYPFSPMYLQKSGQDVSOAQROIKRGAPP	296
Db	241	EGDEVSLLEGEAVEVIHKLIDGWVWIRKDDVTGYPFSPMYLQKSGQDVSOAQROIKRGAPP	300
QY	297	RRSIRNAHSIHORSKRILSODAYRNRVRFLOQRROARPGQSPGSPLEEROTQSK	356
Db	301	RRSIRNAHSIHORSKRILSODAYRNRVRFLOQRROARPGQSPGSPLEEROTQSK	360
QY	357	PQAVPRPSADLILNRCSESTKRLASAV	386
Db	361	PQAVPRPSADLILNRCSESTKRLASAV	390
RESULT 3			
US-09-820-005-4			
; Sequence 4, Application US/09820005			
; Patent No. 6489149			
; ORGANISM: Human			
; GENERAL INFORMATION:			
; APPLICANT: SHAO, Wei et al			
; TITLE OF INVENTION: ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC			
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES			
; TITLE OF INVENTION: THEREOF			
; FILE REFERENCE: CL001198			
; CURRENT APPLICATION NUMBER: US/09/820,005			
; CURRENT FILING DATE: 2001-03-29			
; NUMBER OF SEQ ID NOS: 4			
; SOFTWARE: FastSeq for Windows Version 4.0			
; SEQ ID NO 4			

Db 121 RPDDLKLPDNTQTKPKETLMPKGGKSTATDITGPILQTYRAIADYEKTSSEMASTG 180  
Qy 181 DVVEVKSSEGWFCQKAKRGWIPASFLEPLDSPDETPENYAGEPYVAIKAYTAV 240  
Db 181 DVVEVKSSEGWFCQKAKRGWIPASFLEPLDSPDETPENYAGEPYVAIKAYTAV 240  
Qy 241 EGDEVSILLEGAEVVEIHKLLDGW----KDDVTGFPSPMYLQKSGQDVSQAQRQIKRGAPP 296  
Db 241 EGDEVSILLEGAEVVEIHKLLDGWVIRKDDVTGFPSPMYLQKSGQDVSQAQRQIKRGAPP 300  
Qy 297 RRSIRNAHSIHQSRKRLSDAYRRNSVRFLOQRROARPGSPGSPLEERQOTORSK 356  
Db 301 RRSIRNAHSIHQSRKRLSDAYRRNSVRFLOQRROARPGSPGSPLEERQOTORSK 360  
Qy 357 POPAVPPRPSADLILNRCSESTKRLASAV 386  
Db 361 POPAVPPRPSADLILNRCSESTKRLASAV 390

## RESULT 5

US-09-808-701A-21

; Sequence 21, Application US/09808701A

; Patent No. 6610536

; GENERAL INFORMATION:

; APPLICANT: Tang, Y. Tom

; APPLICANT: Goodrich, Ryle

; APPLICANT: Asundi, Vinod

; APPLICANT: Drmanac, Radoje T.

; TITLE OF INVENTION: No. 6610536el Nucleic Acids and

; TITLE OF INVENTION: Polypeptides

; FILE REFERENCE: 790CIP2D

; CURRENT APPLICATION NUMBER: US/09/808,701A

; CURRENT FILING DATE: 2002-03-14

; PRIOR APPLICATION NUMBER: 09/649,167

; PRIOR FILING DATE: 2000-08-23

; PRIOR APPLICATION NUMBER: 09/540,217

; PRIOR FILING DATE: 2000-03-31

; NUMBER OF SEQ ID NOS: 34

; SOFTWARE: pt\_FL\_genes Version 2.0

; SEQ ID NO 21

; LENGTH: 215

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-808-701A-21

Query Match 19.9%; Score 405.5; DB 4; Length 215;  
Best Local Similarity 37.4%; Pred. No. 5.8e-32;  
Matches 77; Conservative 43; Mismatches 75; Indels 11; Gaps 3;

Qy 6 IRHIALGFEKRPVPSQHYVMFLVKWQDLSEKVVYRRFTIYEFHKLKEMPPIEAGAI 65  
Db 7 IVEVKVLQVQKRRVPNKHYVYIIRVTSSGSTAIYRRYKFFDQLQWMLDKFPMEGGQK 66  
Qy 66 NPENRIIPLPAKWFQGR---AAENRQGLTLYCSTLMSLPYKISRCPHLLDPFKVRP 122  
Db 67 DPKQRIIPFLPGKTLFRSHIRDVAVKRLPIDEYCKALIQLPYISQCDVLOFFETRP 126  
Qy 123 DDLKLPDNTQTKPKETLMPKGGKSTATDITGPILQTYRAIADYEKTSSEMASTG 182  
Db 127 EDLNPPEEHIGKKK-----GGQTSVD---PWLQYVVVANYQKSESSEISLSVGQV 178  
Qy 183 VEVVEKSEGWFCQKAKRGWIPASFLEPLDSPDETPENYAGEPYVAIKAYTAV 208  
Db 179 VDLEKTESGWFCQKAKRGWIPASFLEPLDSPDETPENYAGEPYVAIKAYTAV 204

## RESULT 6

US-09-006-428A-10

; Sequence 10, Application US/09006428A

; Patent No. 6444439

; GENERAL INFORMATION:

; APPLICANT: Jing Li



```
;
; STRANDEDNESS:
; TOPOLOGY: unknown
; MOLECULE TYPE: peptide
; US-08-630-915A-194

Query Match          9.2%; Score 188; DB 3; Length 509;
Best Local Similarity 22.1%; Pred. No. 7.7e-10;
Matches 60; Conservative 58; Mismatches 102; Indels 52; Gaps 9;

Qy 64 AINPENRIIPLHPAPKWFQDQRAAENRQGLTLCVSTLMSLPTKISRCPHLLDFFKVRPD 123
Db 141 AVSPKALLP-----PTVLSATSTSEPLSSNQPASVTDYQNVFS 182

Qy 124 DLKLPDNTQTKPETYLMKPKDGKSTATDITGPI-----ILQTYR--AIANYEKTSGSEMA 176
Db 183 NLTWNTSWQKSAFT-----RTVSPGVSPIHGQOVVENLKAQALCSWTAKDNHNLN 235

Qy 177 LSTGDDVVVEKSESGWFWCOMKAKRGWIPASFLPLELSDPD-ETEDPEPNYA-----227
Db 236 FSKHDIITVLEQQEN-WWFGVHGGRGWFPKSVYKIIIPGSEVKREEPEALYAAVNNKKPTS 294

Qy 228 -----GEPYVAIKAYTAVEGDEVSLLEGEAVEVIHKLKLDGKW---DDVTGYFPSPMYLQKS 279
Db 295 AAYSGVEGYIALYPYSSVEPGDLTFTGEBEILVTQKDGWMTGSGIDRSIGFSPNYVYKPK 354

Qy 280 QDVSOAQRQIKRGAPRRSSIRNAHSIHQRS 311
Db 355 DQSFSGAS--KSGASNKKEPIAQVTSAYVAS 384

RESULT 12
US-09-879-957-194
; Sequence 194, Application US/09879957
; Patent No. 6709821
; GENERAL INFORMATION:
; APPLICANT: SPARKS, Andrew B.
; HOFFMAN, No. 6709821h
; KAY, Brian K.
; FOWLES, Dana M.
; MCCONNELL, Stephen J.
; TITLE OF INVENTION: POLYPEPTIDES HAVING A FUNCTIONAL
; DOMAIN OF INTEREST AND METHODS OF IDENTIFYING AND
; USING SAME
; NUMBER OF SEQUENCES: 227
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds LLP
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/879,957
; FILING DATE: 13-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/630,915
; FILING DATE: 03-APR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Mirock, S. Leellie
; REGISTRATION NUMBER: 18,872
; REFERENCE/DOCKET NUMBER: 1101-174
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-8864/9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 194:
; SEQUENCE CHARACTERISTICS:
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;
; LENGTH: 509 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: unknown
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 194:
; US-09-879-957-194

Query Match          9.2%; Score 188; DB 4; Length 509;
Best Local Similarity 22.1%; Pred. No. 7.7e-10;
Matches 60; Conservative 58; Mismatches 102; Indels 52; Gaps 9;

Qy 64 AINPENRIIPLHPAPKWFQDQRAAENRQGLTLCVSTLMSLPTKISRCPHLLDFFKVRPD 123
Db 141 AVSPKALLP-----PTVLSATSTSEPLSSNQPASVTDYQNVFS 182

Qy 124 DLKLPDNTQTKPETYLMKPKDGKSTATDITGPI-----ILQTYR--AIANYEKTSGSEMA 176
Db 183 NLTWNTSWQKSAFT-----RTVSPGVSPIHGQOVVENLKAQALCSWTAKDNHNLN 235

Qy 177 LSTGDDVVVEKSESGWFWCOMKAKRGWIPASFLPLELSDPD-ETEDPEPNYA-----227
Db 236 FSKHDIITVLEQQEN-WWFGVHGGRGWFPKSVYKIIIPGSEVKREEPEALYAAVNNKKPTS 294

Qy 228 -----GEPYVAIKAYTAVEGDEVSLLEGEAVEVIHKLKLDGKW---DDVTGYFPSPMYLQKS 279
Db 295 AAYSGVEGYIALYPYSSVEPGDLTFTGEBEILVTQKDGWMTGSGIDRSIGFSPNYVYKPK 354

Qy 280 QDVSOAQRQIKRGAPRRSSIRNAHSIHQRS 311
Db 355 DQSFSGAS--KSGASNKKEPIAQVTSAYVAS 384

RESULT 13
US-09-949-016-7610
; Sequence 7610, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7610
; LENGTH: 1676
; TYPE: PRT
; ORGANISM: Human
; US-09-949-016-7610

Query Match          9.2%; Score 188; DB 4; Length 1676;
Best Local Similarity 22.1%; Pred. No. 4.8e-09;
Matches 60; Conservative 58; Mismatches 102; Indels 52; Gaps 9;

Qy 64 AINPENRIIPLHPAPKWFQDQRAAENRQGLTLCVSTLMSLPTKISRCPHLLDFFKVRPD 123
Db 803 AVSPKALLP-----PTVLSATSTSEPLSSNQPASVTDYQNVFS 844

Qy 124 DLKLPDNTQTKPETYLMKPKDGKSTATDITGPI-----ILQTYR--AIANYEKTSGSEMA 176
Db 845 NLTWNTSWQKSAFT-----RTVSPGVSPIHGQOVVENLKAQALCSWTAKDNHNLN 897

Qy 177 LSTGDDVVVEKSESGWFWCOMKAKRGWIPASFLPLELSDPD-ETEDPEPNYA-----227
Db 898 FSKHDIITVLEQQEN-WWFGVHGGRGWFPKSVYKIIIPGSEVKREEPEALYAAVNNKKPTS 956
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Qy 228 -----GEYVAKAYTAVEGDEVSLLEGEAVEVHKLLDGWK---DDVTGYFPSPMYLQKS 279  
Db 957 AAYSVEEYIAYIPYSSVEPGDLTTEGEELVTQKGEWMTGSGDRSGIFPSNYVKPK 1016  
Qy 280 QGVDSQAQRQIKRGAPRRSSIRNAHSIHQRS 311  
Db 1017 DQESFGSAS--KSGASNKKEPEIAQVTSAYVAS 1046

RESULT 14  
US-08-630-915A-40  
; Sequence 40, Application US/08630915A  
; Patent No. 6309820  
; GENERAL INFORMATION:  
; APPLICANT: SPARKS, Andrew B.  
; APPLICANT: HOFFMAN, No. 6309820h  
; APPLICANT: KAY, Brian K.  
; APPLICANT: FOWLKES, Dana M.  
; APPLICANT: MCCONNELL, Stephen J.  
; TITLE OF INVENTION: POLYPEPTIDES HAVING A FUNCTIONAL  
; TITLE OF INVENTION: DOMAIN OF INTEREST AND METHODS OF IDENTIFYING AND  
; TITLE OF INVENTION: USING SAME  
; NUMBER OF SEQUENCES: 227  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Pennie & Edmonds LLP  
; STREET: 1155 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: USA  
; ZIP: 10036-2711  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/630,915A  
; FILING DATE: 03-APR-1996  
; CLASSIFICATION: 536  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Misrock, S. Leslie  
; REGISTRATION NUMBER: 18,872  
; REFERENCE/DOCKET NUMBER: 1101-174  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 790-9090  
; TELEFAX: (212) 869-8864/9741  
; TELEX: 66141 PENNIE  
; INFORMATION FOR SEQ ID NO: 40:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 248 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: unknown  
; TOPOLOGY: unknown  
; MOLECULE TYPE: peptide  
; US-08-630-915A-40

Query Match 8.7%; Score 176.5; DB 3; Length 248;  
Best Local Similarity 28.0%; Pred. No. 3.6e-09;  
Matches 59; Conservative 37; Mismatches 68; Indels 47; Gaps 11;  
Qy 114 LLDFKVRPDDLKLPDQ---TKK-----PETYLMPKD-----GKS 147  
Db 45 LYPSSVEPGDLTTEGEELVTQKGEWMTGSGDRSGIFPSNYVKPKQESFGSASKS 104  
Qy 148 TATDITGPILLOTYRATANYEKTSGSEMASTGDDVVVEKSGWFCQMKAK-----R 202  
Db 105 GASN-KKPEIAQVTS---YVASSGSQLSLAPGQLILIKNTSGWQGLQARGKKRK 160  
Qy 203 GWIPASFLPLDSDPDETPENYAGEP---YVAIKAYTAVEGDEVSLLEGEAVEVHK- 258  
Db 161 GWFPASHVKLGPSSERATP---AFHPVCQVIAMDYAANNEDELSFSKQLINVMNKD 216

Qy 259 LLDGWKDD---VTGYFPSPMYLQ-KSGQDVSQ 285  
Db 217 DPDMQGEINGVTGLFPSNYVKMTTSDPSQ 247

RESULT 15  
US-09-879-957-40  
; Sequence 40, Application US/09879957  
; Patent No. 6709821  
; GENERAL INFORMATION:  
; APPLICANT: SPARKS, Andrew B.  
; APPLICANT: HOFFMAN, No. 6709821h  
; APPLICANT: KAY, Brian K.  
; APPLICANT: FOWLKES, Dana M.  
; APPLICANT: MCCONNELL, Stephen J.  
; TITLE OF INVENTION: POLYPEPTIDES HAVING A FUNCTIONAL  
; TITLE OF INVENTION: DOMAIN OF INTEREST AND METHODS OF IDENTIFYING AND  
; TITLE OF INVENTION: USING SAME  
; NUMBER OF SEQUENCES: 227  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Pennie & Edmonds LLP  
; STREET: 1155 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: USA  
; ZIP: 10036-2711  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/879,957  
; FILING DATE: 13-Jun-2001  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/630,915  
; FILING DATE: 03-APR-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Misrock, S. Leslie  
; REGISTRATION NUMBER: 18,872  
; REFERENCE/DOCKET NUMBER: 1101-174  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 790-9090  
; TELEFAX: (212) 869-8864/9741  
; TELEX: 66141 PENNIE  
; INFORMATION FOR SEQ ID NO: 40:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 248 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: <Unknown>  
; TOPOLOGY: unknown  
; MOLECULE TYPE: peptide  
; SEQUENCE DESCRIPTION: SEQ ID NO: 40:  
US-09-879-957-40

Query Match 8.7%; Score 176.5; DB 4; Length 248;  
Best Local Similarity 28.0%; Pred. No. 3.6e-09;  
Matches 59; Conservative 37; Mismatches 68; Indels 47; Gaps 11;  
Qy 114 LLDFKVRPDDLKLPDQ---TKK-----PETYLMPKD-----GKS 147  
Db 45 LYPSSVEPGDLTTEGEELVTQKGEWMTGSGDRSGIFPSNYVKPKQESFGSASKS 104  
Qy 148 TATDITGPILLOTYRATANYEKTSGSEMASTGDDVVVEKSGWFCQMKAK-----R 202  
Db 105 GASN-KKPEIAQVTS---YVASSGSQLSLAPGQLILIKNTSGWQGLQARGKKRK 160  
Qy 203 GWIPASFLPLDSDPDETPENYAGEP---YVAIKAYTAVEGDEVSLLEGEAVEVHK- 258  
Db 161 GWFPASHVKLGPSSERATP---AFHPVCQVIAMDYAANNEDELSFSKQLINVMNKD 216  
Qy 259 LLDGWKDD---VTGYFPSPMYLQ-KSGQDVSQ 285

Db 217 DPDWHQGEINGVTGLFPSNYKMTTSDPSQ 247

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GenCore version 5.1.1.6  
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OM nucleic - nucleic search, using sw model

Run on: April 25, 2005, 08:46:32 ; Search time 808 Seconds  
(without alignments)  
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Title: US-10-767-341-1

Perfect score: 1382

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Gapop 10\_0 , Gapext 1.0

Searched: 5633728 seqs, 3035525691 residues

Total number of hits satisfying chosen parameters: 11267456

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications\_NA.\*

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8: /cgn2\_6/ptodata/2/pubpna/US08\_PUBCOMB.seq.\*  
9: /cgn2\_6/ptodata/2/pubpna/US09\_PUBCOMB.seq.\*  
10: /cgn2\_6/ptodata/2/pubpna/US09\_PUBCOMB.seq.\*  
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15: /cgn2\_6/ptodata/2/pubpna/US10\_PUBCOMB.seq.\*  
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19: /cgn2\_6/ptodata/2/pubpna/US10\_PUBCOMB.seq.\*  
20: /cgn2\_6/ptodata/2/pubpna/US11\_PUBCOMB.seq.\*  
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22: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	1382	100.0	1382	16	US-10-109-856-1
2	1382	100.0	1382	18	US-10-767-341-1
3	1356.8	98.2	1460	18	US-10-755-889-450
4	1348.8	97.6	1744	18	US-10-723-860-6120
5	1303.8	94.3	1349	17	US-10-437-427-5
6	1303.8	94.3	1349	17	US-10-641-643-1176
7	1303.8	94.3	1349	18	US-10-717-597-232
8	1303.8	94.3	1349	18	US-10-775-169-110
9	1293.8	93.6	1340	17	US-10-418-036-17
10	758.6	54.9	1349	17	US-10-437-427-1
11	758.2	54.9	1331	17	US-10-437-427-3

12	520	37.6	545	18	US-10-723-860-1749	Sequence 1749, Ap
13	360	26.0	402	15	US-10-202-724-2	Sequence 2, Appli
14	323.8	23.4	425	9	US-09-925-299-448	Sequence 448, App
15	323.8	23.4	425	10	US-09-925-299-448	Sequence 448, App
16	313.6	22.7	354	14	US-10-066-543-2155	Sequence 2155, Ap
17	280.6	20.3	18853	16	US-10-109-856-3	Sequence 3, Appli
18	280.6	20.3	18853	18	US-10-767-341-3	Sequence 3, Appli
19	275	19.9	17302	17	US-10-437-427-8	Sequence 8, Appli
20	212.2	15.4	569	18	US-10-430-201-2337	Sequence 2337, Ap
21	212.2	15.4	569	18	US-10-430-201-2337	Sequence 2338, Ap
22	192.4	13.9	781	18	US-10-363-345A-1135	Sequence 1135, Ap
23	192.4	13.9	781	18	US-10-363-345A-1135	Sequence 1136, Ap
24	192.4	13.9	781	19	US-10-363-483A-1135	Sequence 1135, Ap
25	192.4	13.9	781	19	US-10-363-483A-1135	Sequence 1136, Ap
26	166.4	12.0	781	18	US-10-363-345A-1133	Sequence 1133, Ap
27	166.4	12.0	781	18	US-10-363-345A-1133	Sequence 1134, Ap
28	166.4	12.0	781	19	US-10-363-483A-1133	Sequence 1133, Ap
29	166.4	12.0	781	19	US-10-363-483A-1133	Sequence 1134, Ap
30	141.4	10.2	780	18	US-10-363-345A-4365	Sequence 4365, Ap
31	141.4	10.2	780	18	US-10-363-345A-4365	Sequence 4366, Ap
32	141.4	10.2	780	19	US-10-363-483A-4365	Sequence 4366, Ap
33	141.4	10.2	780	19	US-10-363-483A-4365	Sequence 4367, Ap
34	134.4	9.7	780	18	US-10-363-345A-4367	Sequence 4367, Ap
35	134.4	9.7	780	18	US-10-363-345A-4367	Sequence 4368, Ap
36	134.4	9.7	780	19	US-10-363-483A-4367	Sequence 4367, Ap
37	134.4	9.7	780	19	US-10-363-483A-4367	Sequence 4368, Ap
38	128.2	9.3	3375	11	US-09-997-722-75	Sequence 75, Appl
39	128.2	9.3	3728	11	US-09-997-722-74	Sequence 74, Appl
40	124.4	9.0	3534	17	US-10-161-927-59	Sequence 59, Appl
41	122.6	8.9	26650	13	US-10-087-192-619	Sequence 619, App
42	119.2	8.6	870	9	US-09-808-701-4	Sequence 4, Appli
43	119.2	8.6	870	14	US-10-233-131-4	Sequence 4, Appli
44	119.2	8.6	870	17	US-10-240-145-30	Sequence 30, Appl
45	117.2	8.5	3251	17	US-10-094-749-937	Sequence 937, App

#### ALIGNMENTS

#### RESULT 1

US-10-109-856-1  
; Sequence 1, Application US/10109856  
; Publication No. US20030166185A1  
; GENERAL INFORMATION:  
; APPLICANT: SHAO, Wei et al.  
; TITLE OF INVENTION: ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC  
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES  
; TITLE OF INVENTION: THEROOF  
; FILE REFERENCE: CL001198DIV  
; CURRENT APPLICATION NUMBER: US/10109,856  
; CURRENT FILING DATE: 2002-04-01  
; PRIOR APPLICATION NUMBER: 09/820,005  
; PRIOR FILING DATE: 2001-03-29  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 1382  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-10-109-856-1

Query Match 100.0%; Score 1382; DB 16; Length 1382;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1382; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 CTTGAAGTCCAGGAGCAGTGGAGGCCACCCAGTCATGGGGACACCTTCATCGTCA 60  
Db 1 CTTGAAGTCCAGGAGCAGTGGAGGCCACCCAGTCATGGGGACACCTTCATCGTCA 60  
QY 61 CATCGCCCTGCTGGGCTTTGAGAAGCGCTTCGTACCAGCCAGCAGTATGTGTACATGTT 120  
Db 61 CATCGCCCTGCTGGGCTTTGAGAAGCGCTTCGTACCAGCCAGCAGTATGTGTACATGTT 120

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QY 121 CCTGTGTAATGGCAGGACCTGTGCGAAGAGTGTGTACCGGCGCTTCAACGAGATCTA 180
Db |||
QY 121 CCTGTGTAATGGCAGGACCTGTGCGAAGAGTGTGTACCGGCGCTTCAACGAGATCTA 180
Db |||
QY 181 CGAGTTCCATAAAACCTTTAAAGAAATGTTCCCTATTGAGGCGAGGGCGCATCAATCCAGA 240
Db |||
QY 181 CGAGTTCCATAAAACCTTTAAAGAAATGTTCCCTATTGAGGCGAGGGCGCATCAATCCAGA 240
Db |||
QY 241 GAAAGGATCATCCCGACCTCCAGCTCCCAAGTGTGTTGACGGGCGAGCGGGCGCGCA 300
Db |||
QY 241 GAAAGGATCATCCCGACCTCCAGCTCCCAAGTGTGTTGACGGGCGAGCGGGCGCGCA 300
Db |||
QY 301 GAAAGGATCATCCCGACCTCCAGCTCCCAAGTGTGTTGACGGGCGAGCGGGCGCGCA 360
Db |||
QY 301 GAAAGGATCATCCCGACCTCCAGCTCCCAAGTGTGTTGACGGGCGAGCGGGCGCGCA 360
Db |||
QY 361 CTCCCGCTGTCCCGACCTCCAGCTCCCAAGTGTGTTGACGGGCGAGCGGGCGCGCA 420
Db |||
QY 361 CTCCCGCTGTCCCGACCTCCAGCTCCCAAGTGTGTTGACGGGCGAGCGGGCGCGCA 420
Db |||
QY 421 CACGCAACACGAGCAAAAGCGAGACATCTTGTATGCGCCAAAGATGGCAAGTAC 480
Db |||
QY 421 CACGCAACACGAGCAAAAGCGAGACATCTTGTATGCGCCAAAGATGGCAAGTAC 480
Db |||
QY 481 CCGCAGACATCACCGGCGCCCATCATCTCGAGAGTACCGCGCATTTGCCAACTACGA 540
Db |||
QY 481 CCGCAGACATCACCGGCGCCCATCATCTCGAGAGTACCGCGCATTTGCCAACTACGA 540
Db |||
QY 541 GAAGACCTCGGGTCCGAGATGGCTGTCTCAACGGGGAGCGTGTGGAGGTGCTAGAGAA 600
Db |||
QY 541 GAAGACCTCGGGTCCGAGATGGCTGTCTCAACGGGGAGCGTGTGGAGGTGCTAGAGAA 600
Db |||
QY 601 GAGCGAGCGGTGTGTGTTGTCAGATGAAGCAAGCGAGCGTGCATCCAGCGTC 660
Db |||
QY 601 GAGCGAGCGGTGTGTGTTGTCAGATGAAGCAAGCGAGCGTGCATCCAGCGTC 660
Db |||
QY 661 CTTCTCTGAGCCCTCGAGATGGCTGTCTCAACGGGGAGCGTGTGGAGGTGCTAGAGAA 720
Db |||
QY 661 CTTCTCTGAGCCCTCGAGATGGCTGTCTCAACGGGGAGCGTGTGGAGGTGCTAGAGAA 720
Db |||
QY 721 TGAGCATACGTCCGATCAAGGCTTACCTGTGTGAGGGGAGCGAGGTGCTCCTGCT 780
Db |||
QY 721 TGAGCATACGTCCGATCAAGGCTTACCTGTGTGAGGGGAGCGAGGTGCTCCTGCT 780
Db |||
QY 781 CGAGGCTGAGCTGTTGAGTCAATCAAGCTCTCGAGCGGTGGAAGAGACGAGCTAC 840
Db |||
QY 781 CGAGGCTGAGCTGTTGAGTCAATCAAGCTCTCGAGCGGTGGAAGAGACGAGCTAC 840
Db |||
QY 841 AGGCTACTTCCCGTCCATGTACCTGCAAAAGTCAGGGCAAGCGTGTCCAGGCCCAACG 900
Db |||
QY 841 AGGCTACTTCCCGTCCATGTACCTGCAAAAGTCAGGGCAAGCGTGTCCAGGCCCAACG 900
Db |||
QY 901 CCAGATCAAGCGGGGCGCGCGCGCGAGGTGTCATCCGCAACGCGGACAGATCCA 960
Db |||
QY 901 CCAGATCAAGCGGGGCGCGCGCGCGAGGTGTCATCCGCAACGCGGACAGATCCA 960
Db |||
QY 961 CCGAGCGTCCGGAAGCGCTCAGCAGGACGCTATCGCGCAACAGAGTCCGTTTCT 1020
Db |||
QY 961 CCGAGCGTCCGGAAGCGCTCAGCAGGACGCTATCGCGCAACAGAGTCCGTTTCT 1020
Db |||
QY 1021 GCAGCAGCGAGCGCGCGCGCGCGGACCGCAGAGCGCGCGCGCGCGCGCGCA 1080
Db |||
QY 1081 GAGCGCGCAGCGAGCGCTTAAACCGCAGCGCGCGGTGCGCGCGCGCGCGCGCGCA 1140
Db |||
QY 1081 GAGCGCGCAGCGAGCGCTTAAACCGCAGCGCGCGGTGCGCGCGCGCGCGCGCGCA 1140
Db |||
QY 1141 CCTCATCTGAACCGCTGCGAGCGAGACCAAGCGGAACTGGCGTCTCCGCTCTGAGG 1200
Db |||
QY 1141 CCTCATCTGAACCGCTGCGAGCGAGACCAAGCGGAACTGGCGTCTCCGCTCTGAGG 1200
Db |||
QY 1201 CTGAGCGCAGTCCCGAGCTAGCGTCTCGGCGCTTTCGCGCGCGCGCGCTGTATATACGTG 1260
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Db 1201 CTGAGCGCAGTCCCGAGCTAGCGTCTCGGCGCTTGC CGCGCTGTATATACGTG 1260
QY 1261 TTCTATAGAGCTGGCTCTGAGCGCGAGGCGCCGACCCCTGTCCAGCGCGGCTC 1320
Db 1261 TTCTATAGAGCTGGCTCTGAGCGCGAGGCGCCGACCCCTGTCCAGCGCGGCTC 1320
QY 1321 CCGCCACCTCAATAAATGTTGCTTGGAGTGGAAAAA AAAAAAAAAAAAAA 1380
Db 1321 CCGCCACCTCAATAAATGTTGCTTGGAGTGGAAAAA AAAAAAAAAAAAAA 1380
QY 1381 AA 1382
Db 1381 AA 1382

RESULT 2
US-10-767-341-1
; Sequence 1, Application US/10767341
; Publication No. US20040132084A1
; GENERAL INFORMATION:
; APPLICANT: SHAO, Wei et al.
; TITLE OF INVENTION: ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC
; ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES
; FILE OF INVENTION: THEREOF
; FILE REFERENCE: CL001198DIV-II
; CURRENT APPLICATION NUMBER: US/10767,341
; CURRENT FILING DATE: 2004-01-30
; PRIOR APPLICATION NUMBER: 09/820,005
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 10/109,856
; PRIOR FILING DATE: 2002-04-01
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1382
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-767-341-1
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Query Match 100.0%; Score 1382; DB 18; Length 1382;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1382; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CCTGGAAGTGCAGGGAGCACTGGAGGCGACCCAGTCAATGGGGGACACCTTCATCCGTCA 60
Db 1 CCTGGAAGTGCAGGGAGCACTGGAGGCGACCCAGTCAATGGGGGACACCTTCATCCGTCA 60
QY 61 CATCGCCCTGTGGCGCTTTGAGAACGCTTGTGATCCCGACCGACACTATGTACATGTT 120
Db 61 CATCGCCCTGTGGCGCTTTGAGAACGCTTGTGATCCCGACCGACACTATGTACATGTT 120
QY 121 CCTGTGTAATGGCAGGACCTGTCCGAGAGAGTGTCTACCGCGCTTTCACCGAGATCTA 180
Db 121 CCTGTGTAATGGCAGGACCTGTCCGAGAGAGTGTCTACCGCGCTTTCACCGAGATCTA 180
QY 181 CGAGTTCCATAAAACCTTTAAAGAAATGTTCCCTATTGAGGCGAGGGCGATCAATCCAGA 240
Db 181 CGAGTTCCATAAAACCTTTAAAGAAATGTTCCCTATTGAGGCGAGGGCGATCAATCCAGA 240
QY 241 GAAAGGATCATCCCGACCTCCAGCTCCCAAGTGTGTTGACGGGCGAGCGGGCGCGCA 300
Db 241 GAAAGGATCATCCCGACCTCCAGCTCCCAAGTGTGTTGACGGGCGAGCGGGCGCGCA 300
QY 301 GAAAGGATCATCCCGACCTCCAGCTCCCAAGTGTGTTGACGGGCGAGCGGGCGCGCA 360
Db 301 GAAAGGATCATCCCGACCTCCAGCTCCCAAGTGTGTTGACGGGCGAGCGGGCGCGCA 360
QY 361 CTCCCGCTGTCCCGACCTCCAGCTCCCAAGTGTGTTGACGGGCGAGCGGGCGCGCA 420
Db 361 CTCCCGCTGTCCCGACCTCCAGCTCCCAAGTGTGTTGACGGGCGAGCGGGCGCGCA 420
QY 421 CACGCAACACGAGCAAAAGCGAGACATCTTGTATGCGCCAAAGATGGCAAGTAC 480
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Db 421 CACGGACACACGACAAAAAGCCAGACATCTTGATGCCAAAGATGGCAAGGTAC 480  
QY 481 CGCGACAGATCACCGGCCCATCATCTCTGACAGCTACCGCGCATTTGCCAACTACGA 540  
Db 481 CGCGACAGATCACCGGCCCATCATCTCTGACAGCTACCGCGCATTTGCCAACTACGA 540  
QY 541 GAAGACCTCGGGCTCCGAGATGGCTCTGTCACGGGGGAGCTGGTGGAGGTGTAGAGAA 600  
Db 541 GAAGACCTCGGGCTCCGAGATGGCTCTGTCACGGGGGAGCTGGTGGAGGTGTAGAGAA 600  
QY 601 GAGCGAGAGCGGTGTGGTGTCTGTCAGATGAAGCAAAAGCAGAGGCTGGATCCACGCTC 660  
Db 601 GAGCGAGAGCGGTGTGGTGTCTGTCAGATGAAGCAAAAGCAGAGGCTGGATCCACGCTC 660  
QY 661 CTTCTCTGAGCCCTTGGACAGTCTCTGACGAGACGGAAGCCCTGAGCCCAACTATGACGG 720  
Db 661 CTTCTCTGAGCCCTTGGACAGTCTCTGACGAGACGGAAGCCCTGAGCCCAACTATGACGG 720  
QY 721 TGAGCCATACGTCGCCATCAAGGCTTACATGCTGTGGAGGGGACGAGGTGTCCCTGCT 780  
Db 721 TGAGCCATACGTCGCCATCAAGGCTTACATGCTGTGGAGGGGACGAGGTGTCCCTGCT 780  
QY 781 CGAGGCTGAAGCTGTGGAGTCAATCAAGCTCTCTGAGCGGTGGAAGAGACGCTCAC 840  
Db 781 CGAGGCTGAAGCTGTGGAGTCAATCAAGCTCTCTGAGCGGTGGAAGAGACGCTCAC 840  
QY 841 AGGCTACTTCCCGTCCATGATCTGCTCAAAAGTCAAGGCAAGAGCTGTCCAGGCCCAAG 900  
Db 841 AGGCTACTTCCCGTCCATGATCTGCTCAAAAGTCAAGGCAAGAGCTGTCCAGGCCCAAG 900  
QY 901 CCAGATCAAGCGGGGGGCGCGCGCGAGTCTGTCATCCGCAACGCGGCAAGATCA 960  
Db 901 CCAGATCAAGCGGGGGGCGCGCGCGAGTCTGTCATCCGCAACGCGGCAAGATCA 960  
QY 961 CCAGCGGTGCGGAGCGGCTCAGCGAGGAGCGCTATCCGCGCAACAGAGTCCGTTTCT 1020  
Db 961 CCAGCGGTGCGGAGCGGCTCAGCGAGGAGCGCTATCCGCGCAACAGAGTCCGTTTCT 1020  
QY 1021 GCAGCAGCGACGCGCGCGCGCGCGGAGCGGAGCGGAGCGGCGGCGGCGGCGGAG 1080  
Db 1021 GCAGCAGCGACGCGCGCGCGCGCGGAGCGGAGCGGAGCGGCGGCGGCGGCGGAG 1080  
QY 1081 GGAGCGGAGAGCGAGCGCTTAACCGCAGCGCGCGGCGGCGGCGGCGGCGGCGGCGG 1140  
Db 1081 GGAGCGGAGAGCGAGCGCTTAACCGCAGCGCGCGGCGGCGGCGGCGGCGGCGGCGG 1140  
QY 1141 CCTCATCTGAAACCGCTGACGAGAGCACCAAGCGGAGCTGGGCTCTGCGCTCTGAGG 1200  
Db 1141 CCTCATCTGAAACCGCTGACGAGAGCACCAAGCGGAGCTGGGCTCTGCGCTCTGAGG 1200  
QY 1201 CTGGAGCGCAGTCCCAGCTAGCGTCTCGGCGCTTTCGCGCGCGGCGGCGGCGGCGG 1260  
Db 1201 CTGGAGCGCAGTCCCAGCTAGCGTCTCGGCGCTTTCGCGCGCGGCGGCGGCGGCGG 1260  
QY 1261 TTCTATAGAGCTGGGCTCTGAGCGCGGAGGAGCGGCGGCGGCGGCGGCGGCGGCTC 1320  
Db 1261 TTCTATAGAGCTGGGCTCTGAGCGCGGAGGAGCGGCGGCGGCGGCGGCGGCGGCTC 1320  
QY 1321 CGGCCACCTCAATATGCTTGGAGTGGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAA 1380  
Db 1321 CGGCCACCTCAATATGCTTGGAGTGGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAA 1380  
QY 1381 AA 1382  
Db 1381 AA 1382

## RESULT 3

US-10-755-889-450

; Sequence 450, Application US/10755889

; Publication No. US20040171823A1

; GENERAL INFORMATION:

; APPLICANT: Bristol-Myers Squibb Company  
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES ASSOCIATED WITH THE NF- $\kappa$ B  
; TITLE OF INVENTION: PATHWAY  
; FILE REFERENCE: D0284 NP  
; CURRENT APPLICATION NUMBER: US/10/755,889  
; CURRENT FILING DATE: 2004-01-13  
; PRIOR APPLICATION NUMBER: U.S. 60/440,068  
; PRIOR FILING DATE: 2003-01-14  
; PRIOR APPLICATION NUMBER: U.S. 60/469,757  
; PRIOR FILING DATE: 2003-05-12  
; NUMBER OF SEQ ID NOS: 823  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 450  
; LENGTH: 1460  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; US-10-755-889-450

Query Match 98.2%; Score 1356.8; DB 18; Length 1460;

Best Local Similarity 99.0%; Pred. No. 0;

Matches 1380; Conservative 0; Mismatches 2; Indels 12; Gaps 1;

QY 1 CCTGGAAGTCCAGGAGCACCTGGAGGCCACCCAGTCACTGGGGGACACCTTTCATCCGTC 60  
Db 43 CTGGAAGTCCAGGAGCACCTGGAGGCCACCCAGTCACTGGGGGACACCTTTCATCCGTC 102  
QY 61 CATCCGCTGTGGCTTTGAGAAGCGTTCGTACCCAGCCAGCACTATGTGTACATGTT 120  
Db 103 CATCCGCTGTGGCTTTGAGAAGCGTTCGTACCCAGCCAGCACTATGTGTACATGTT 162  
QY 121 CTGCTGAATGGCAGGACCTGTCCGAGAGGTGTCTACCGCGGCTTACCGAGATCTA 180  
Db 163 CTGCTGAATGGCAGGACCTGTCCGAGAGGTGTCTACCGCGGCTTACCGAGATCTA 222  
QY 181 CGAGTTCATATAAACTTAAAGAAATGTTCCCTATTGAGGCAAGGCGCATCAATCCAGA 240  
Db 223 CGAGTTCATATAAACTTAAAGAAATGTTCCCTATTGAGGCAAGGCGCATCAATCCAGA 282  
QY 241 GAAAGAGTCACTCCCGACCTCCAGCTCCCAAGTGGTTTGAAGGCGGAGCGGCGGCGG 300  
Db 283 GAAAGAGTCACTCCCGACCTCCAGCTCCCAAGTGGTTTGAAGGCGGAGCGGCGGCGG 342  
QY 301 GAAAGAGTCACTCCCGACCTCCAGCTCCCAAGTGGTTTGAAGGCGGAGCGGCGGCGG 360  
Db 343 GAAAGAGTCACTCCCGACCTCCAGCTCCCAAGTGGTTTGAAGGCGGAGCGGCGGCGG 402  
QY 361 CTCCGCTGTCCCGACCTCCAGCTCCCAAGTGGTTTGAAGGCGGAGCGGCGGCGGCGG 420  
Db 403 CTCCGCTGTCCCGACCTCCAGCTCCCAAGTGGTTTGAAGGCGGAGCGGCGGCGGCGG 462  
QY 421 CACGGAACACCAAGCAAAAGCCAGAGACATATTGATGCCCAAGATGGCAAGATGAC 480  
Db 463 CACGGAACACCAAGCAAAAGCCAGAGACATATTGATGCCCAAGATGGCAAGATGAC 522  
QY 481 CGCGACAGACATCACCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 540  
Db 523 CGCGACAGACATCACCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 582  
QY 541 GAAAGACCTCGGCTCCGAGATGGCTCTGTCACGGGGGAGCGTGGAGGTGTGTAGAGAA 600  
Db 583 GAAAGACCTCGGCTCCGAGATGGCTCTGTCACGGGGGAGCGTGGAGGTGTGTAGAGAA 642  
QY 601 GAGCGAGAGCGGTGTGGTGTCTGTGATGAAGCAAAAGCGAGGCTGGATCCCAAGCGTC 660  
Db 643 GAGCGAGAGCGGTGTGGTGTCTGTGATGAAGCAAAAGCGAGGCTGGATCCCAAGCGTC 702  
QY 661 CTTCTCTGAGCGGCTTGAGCAGTCTCTGAGCGGAGAGCCCTGAGCGGCGGCGGCGGCGG 720  
Db 703 CTTCTCTGAGCGGCTTGAGCAGTCTCTGAGCGGAGAGCCCTGAGCGGCGGCGGCGGCGG 762  
QY 721 TGAGCCATACGTCGCCATCAAGGCTTACACTGCTGTGGAGGGGAGCGAGGTGTCCCTGCT 780  
Db 763 TGAGCCATACGTCGCCATCAAGGCTTACACTGCTGTGGAGGGGAGCGAGGTGTCCCTGCT 822

Qy	781	CGAGGGTGAAGCTGTTGAGGTCAATTCACAAGCTCCTGTGACGGCT-----CGAA	828
Db	823	CGAGGGTGAAGCTGTTGAGGTCAATTCACAAGCTCTGGACGGCTGGTGGGTTCATCAGGAA	882
Qy	829	AGACGAGCTCACAGGCTACTTCCCGTCCATGTACTCTGCAAAAGTTCAGGGCAAGACGTGTC	888
Db	883	AGACGAGCTCACAGGCTACTTCCCGTCCATGTACTCTGCAAAAGTTCAGGGCAAGACGTGTC	942
Qy	889	CCAGGCCCAAGCCAGAGATCAAGCGGGGGGGCGCGCCCGCAGGTGCTCATTCGCAACGC	948
Db	943	CCAGGCCCAAGCCAGAGATCAAGCGGGGGGGCGCGCCCGCAGGTGCTCATTCGCAACGC	1002
Qy	949	GCACAGCATCCACCAAGCGGTCGCGGAAAGCGCCTCAGCCAGACGCCCTATCGCCGCAACAG	1008
Db	1003	GCACAGCATCCACCAAGCGGTCGCGGAAAGCGCCTCAGCCAGGACGCCCTATCGCCGCAACAG	1062
Qy	1009	CGTCCGTTTTCTGCAGCAGCGACGCCCGCAGGCGCGCGCGGACCGCAGAGCCCCCGGAG	1068
Db	1063	CGTCCGTTTTCTGCAGCAGCGACGCCCGCAGGCGCGCGCGGACCGCAGAGCCCCCGGAG	1122
Qy	1069	CCCGCTCGAGGAGGAGCGGACAGCGCAGCGCTCTTAAACCGCAGCCGCGGTGCCCGCG	1128
Db	1123	CCCGCTCGAGGAGGAGCGGACAGCGCAGCGCTCTTAAACCGCAGCCGCGGTGCCCGCG	1182
Qy	1129	GCGAGCGCCGACCTCATCTGTAAACCGCTCGAGCGAGACCAAGCGGAAGTGGCGTC	1188
Db	1183	GCGAGCGCCGACCTCATCTGTAAACCGCTCGAGCGAGACCAAGCGGAAGTGGCGTC	1242
Qy	1189	TGCGCTGAGGCTGGAGCGCAGTCCCGACGTAGCGTCTCGGCCCTTGGCGCGCCGTGCC	1248
Db	1243	TGCGCTGAGGCTGGAGCGCAGTCCCGACGTAGCGTCTCGGCCCTTGGCGCGCCGTGCC	1302
Qy	1249	TGTATATACGTGTTCTATAGAGCTGGCGTCTGTGAACCGCGAGGCGACGCCCGACCCCTGT	1308
Db	1303	TGTATATACGTGTTCTATAGAGCTGGCGTCTGTGAACCGCGAGGCGACGCCCGACCCCTGT	1362
Qy	1309	CCAGCGGGCTCCGCGCACCCCTCAATAAATGTTGCTTGGAGTGGAAAAA	1368
Db	1363	CCAGCGGGCTCCGCGCACCCCTCAATAAATGTTGCTTGGAGTGGAAAAA	1422
Qy	1369	AAAAAAAAAAAAA	1382
Db	1423	AAAAAAAAAAAAA	1436

## RESULT 4

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US-10-723-860-6120
; Sequence 6120, Application US/10723860
; Publication No. US20040253606A1
; GENERAL INFORMATION:
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsburg, Wendy M.
; APPLICANT: Zlotnik, Albert
; TITLE OF INVENTION: Methods of Diagnosis of Soft Tissue Sarcoma, Compositions &
; TITLE OF INVENTION: Methods for Screening for Soft Tissue Sarcoma Modulators
; FILE REFERENCE: 058892.0193.NPUS01
; CURRENT APPLICATION NUMBER: US/10/723,860
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: 60/429,739
; PRIOR FILING DATE: 2002-11-26
; NUMBER OF SEQ ID NOS: 8393
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6120
; LENGTH: 1744
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-723-860-6120

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QY	1	CCTGGAAGTGCAGGGAGGACCTGTGGAGGCGACCCAGTCAATGGGGACA	CCTTCATCCGTCA	60
DB	43	CCTGGAAGTGCAGGGAGGACCTGTGGAGGCGACCCAGTCAATGGGGACA	CCTTCATCCGTCA	102
QY	61	CATCGCCCTGCTGGGCTTTGAGAGCGCTTCGTACCCAGCAGCACTATGTGTACATGTT		120
DB	103	CATCGCCCTGCTGGGCTTTGAGAGCGCTTCGTACCCAGCAGCACTATGTGTACATGTT		162
QY	121	CCTGTTGAAATGGCAGGACCTGTTCGGAGAAGTGTCTTACCGGCGCTTTCACCGAGATCTTA		180
DB	163	CCTGTTGAAATGGCAGGACCTGTTCGGAGAAGTGTCTTACCGGCGCTTTCACCGAGATCTTA		222
QY	181	CGAGTTCATAAACCTTTAAAGAAATGTTCCCTATTAGGCGAGGGGCGATCAATCCAGA		240
DB	223	CGAGTTCATAAACCTTTAAAGAAATGTTCCCTATTAGGCGAGGGGCGATCAATCCAGA		282
QY	241	GAAACAGGATCATCCCCACCTCCACAGCTCCCAAGTGGTTTCAACGGGCGAGCGGGCGCCGA		300
DB	283	GAAACAGGATCATCCCCACCTCCACAGCTCCCAAGTGGTTTGAACGGGCGAGCGGGCGCCGA		342
QY	301	GAAACGGCAGGGGACAATTACCGAGTACTGACGACACGCTCATATGAGCTTGGCCACCAAGAT		360
DB	343	GAAACGGCAGGGGACAATTACCGAGTACTGACGACACGCTCATATGAGCTTGGCCACCAAGAT		402
QY	361	CTCCGCGTGTCCCAACCTCTCGACTCTTCTCAAGGTGGCCCTCATATGAGCTTCAAGCTCCC		420
DB	403	CTCCGCGTGTCCCAACCTCTCGACTCTTCTCAAGGTGGCCCTCATATGAGCTTCAAGCTCCC		462
QY	421	CACGGACAACACAGACAAACCAAGCCAGAGACATCTTGATGCCCAAGATGGCAAGAGTAC		480
DB	463	CACGGACAACACAGACAAACCAAGCCAGAGACATCTTGATGCCCAAGATGGCAAGAGTAC		522
QY	481	CGCGACAGACATCACCGGCCCATCATCTCTGCAGACGTTACCGCGCATTTGCCAATACGA		540
DB	523	CGCGACAGACATCACCGGCCCATCATCTCTGCAGACGTTACCGCGCATTTGCCAATACGA		582
QY	541	GAAGACCTCGGGCTCCGAGATGGCTCTGTCTCCACGGGGGACGTGTGGAGGTCTGTAGAAA		600
DB	583	GAAGACCTCGGGCTCCGAGATGGCTCTGTCTCCACGGGGGACGTGTGGAGGTCTGTAGAAA		642
QY	601	GAGCGAGCGGTTGGTGGTCTCTGCAGATGAACAAAGCGAGGCTGGATCCACGCGTC		660
DB	643	GAGCGAGCGGTTGGTGGTCTCTGCAGATGAACAAAGCGAGGCTGGATCCACGCGATC		702
QY	661	CTTCTCTGAGCCCTCGACACAGTCTGTGACGACGGAAGACCTCGAGCCCAACTATGCAGG		720
DB	703	CTTCTCTGAGCCCTCGACACAGTCTGTGACGACGGAAGACCTCGAGCCCAACTATGCAGG		762
QY	721	TGAGCCATACGTTCGCCATCAAGGCTTACATGCTGTGGAGGGGACGAGGTGTCCCTGCT		780
DB	763	TGAGCCATACGTTCGCCATCAAGGCTTACATGCTGTGTGGAGGGGACGAGGTGTCCCTGCT		822
QY	781	CGAGGTGAAGCTGTTGAGGTCAATTCACAGCTCCTCGAGCGCTT-----GGA		828
DB	823	CGAGGTGAAGCTGTTGAGGTCAATTCACAGCTCCTCGAGCGCTTGTGGTGTGATCAGAAA		882
QY	829	AGACGAGTCAAGGCTTACCTCCGTCCTATGTACTCTCAAAAGTCAAGGCGAAGACGTGTC		888
DB	883	AGACGAGTCAAGGCTTACCTCCGTCCTATGTACTCTCAAAAGTCAAGGCGAAGACGTGTC		942
QY	889	CCAGGCCCAACGCCAGATCAAGCGGGGGCGCGCCCGCAGGTCGCTCATTCGCAACGC		948
DB	943	CCAGGCCCAACGCCAGATCAAGCGGGGGCGCGCCCGCAGGTCGCTCATTCGCAACGC		1002
QY	949	GCACAGCATCCACAGCGGTTCGGGAAGCGCTTCAGCCAGGACCGCTTATCGCCGCAACAG		1008
DB	1003	GCACAGCATCCACAGCGGTTCGGGAAGCGCTTCAGCCAGGACCGCTTATCGCCGCAACAG		1062
QY	1009	CGTCCGTTTCTGACAGAGCGACCGCCGACGCGCGCCGCGGACCGCAGAGCCCCGGGAG		1068
DB	1063	CGTCCGTTTCTGACAGAGCGACCGCCGACGCGCGCCGCGGACCGCAGAGCCCCGGGAG		1122
QY	1069	CCGCGTCCAGGAGGAGCGGCGAGCGAGCGCTCTTAACCGCAGCGCGCGGTGCCCGCGCG		1128

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Db 1123 CCGCTCGAGGAGCGGAGAGCGAGCGCTCTAAACCGACCGCGGCTGCCCCCGG 1182
Qy 1129 GCGAGCGCGGAGCTCATCTGAACCGCTGACGAGAGCACCAAGCGGAAGCTGGCGTC 1188
Db 1183 GCGAGCGCGGAGCTCATCTGAACCGCTGACGAGAGCACCAAGCGGAAGCTGGCGTC 1242
Qy 1189 TGGCGTCTGAGGCTGAGGCGAGTCCCGAGCTAGAGCTCTCGGCGCTTGGCGCCCGTGGC 1248
Db 1243 TGGCGTCTGAGGCTGAGGCGAGTCCCGAGCTAGAGCTCTCGGCGCTTGGCGCCCGTGGC 1302
Qy 1249 TGTATATAGCTGTTCTATAGAGCTCGGCTGTGAGCGCGGAGCGGAGCGCCGACCCCTGT 1308
Db 1303 TGTACATAGCTGTTCTATAGAGCTCGGCTGTGAGCGCGGAGCGGAGCGCCGACCCCTGT 1362
Qy 1309 CCAGCGCGGCTCCCGCACCCCTCAATAAATGTTGCTTGGAGTGGAAAAA 1368
Db 1363 CCAGCGCGGCTCCCGCACCCCTCAATAAATGTTGCTTGGAGTGGAAAAA 1422
Qy 1369 AAAAAA 1382
Db 1423 AAAAAA 1436
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## RESULT 5

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US-10-437-427-5
; Sequence 5, Application US/10437427
; Publication No. US2004009901A1
; GENERAL INFORMATION:
; APPLICANT: Rikard Holmdahl
; APPLICANT: Peter Olofsson
; TITLE OF INVENTION: Autoimmune Conditions and NADPH Oxidase
; TITLE OF INVENTION: Defects
; FILE REFERENCE: 11145-024001
; CURRENT APPLICATION NUMBER: US/10/437,427
; CURRENT FILING DATE: 2003-05-13
; PRIOR APPLICATION NUMBER: US 60/380,904
; PRIOR FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: US 60/429,609
; PRIOR FILING DATE: 2002-11-27
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 1349
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-437-427-5
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Query Match 94.3%; Score 1303.8; DB 17; Length 1349;

Best Local Similarity 98.6%; Pred. No. 0;

Matches 1330; Conservative 0; Mismatches 7; Indels 12; Gaps 1;

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Qy 16 GAGCACTGAGGCCACCGAGTCAATGGGGACACCTTCATCCGTCACATCGCCCTGCTGGG 75
Db 1 GAGCACTGAGGCCACCGAGTCAATGGGGACACCTTCATCCGTCACATCGCCCTGCTGGG 60
Qy 76 CTTTGAGAGCGCTTCGTATCCAGCAGCAGCATATGTGTACATGTTCTCGTGAATGGCA 135
Db 61 CTTTGAGAGCGCTTCGTATCCAGCAGCAGCATATGTGTACATGTTCTCGTGAATGGCA 120
Qy 136 GGAACCTGTCGAGAGAGGTGGTCTACCGGCGCTTACCGAGATTCACAGTTCCATAA 195
Db 121 GGAACCTGTCGAGAGAGGTGGTCTACCGGCGCTTACCGAGATTCACAGTTCCATAA 180
Qy 196 CTTAAAGAAATGTTCCCTATTGAGCAGGGGGGATCAATCCAGAAACAGATCATCCC 255
Db 181 CTTAAAGAAATGTTCCCTATTGAGCAGGGGGGATCAATCCAGAAACAGATCATCCC 240
Qy 256 CCACCTCCAGAGTCCCAAGTGGTTTCAACGGCAGCGGCGCGGAGAAACCGCAGGGCAC 315
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Qy 316 ACTTACCGAGTACTGACGACGCTCATGAGCCTGCCCCACCAAGATCTCCCGTGTCCCCA 375
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RESULT 6

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Db 301 ACTTACCGAGTACTGACGACGCTCATGAGCCTGCCCCACCAAGATCTCCCGTGTCCCCA 360
Qy 376 CTTCTCCGACTTCTTCAAGGTGCGCCCTCATGACCTCAAGCTCCCCACGCAACAACGAGAC 435
Db 361 CTTCTCCGACTTCTTCAAGGTGCGCCCTCATGACCTCAAGCTCCCCACGCAACAACGAGAC 420
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Db 601 GTGGTTCGTCTAGATGAAGCAAGAGGAGGTGGATCCAGCGATCTCTCTCGAGGCCCT 660
Qy 676 GGACAGTCTGACGAGACGCGAGACCTCTGAGCCCACTATGAGGTGAGCCATACGTCGC 735
Db 661 GGACAGTCTGACGAGACGCGAGACCTCTGAGCCCACTATGAGGTGAGCCATACGTCGC 720
Qy 736 CATCAAGGCTACACTGCTGTGAGGGGAGCAGAGTGTCCCTGCTCGAGGTTGAAGCTGT 795
Db 721 CATCAAGGCTACACTGCTGTGAGGGGAGCAGAGTGTCCCTGCTCGAGGTTGAAGCTGT 780
Qy 796 TGAGTCTATTCACAAAGTCTCTCGAGCGGT-----GGAAAGACGAGTCAAG 843
Db 781 TGAGTCTATTCACAAAGTCTCTCGAGCGGTGTGGGTGTCATCAGAAAGACGAGTCAAG 840
Qy 844 CTACTTCCGCTCCATGTACTCTCAAAAGTCAGGGCAGAGAGCTGTCCAGGCCCAAGCCCA 903
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Db 901 GATCAAGCGGGGGCGCGCCCGCAGAGTGTCTCAACGCAACGCGCACAGATCCACCA 960
Qy 964 GCGGTGCGGGAAGCGCTCAGCAGAGACGCTTATCGCGCAACAGCGTCCGTTTCTGCA 1023
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Qy 1024 GCAGCAGCGCCCGCAGGCGCGCGCGAGACCGCAGAGCCCGCGGAGCCCGCTCGAGGAGGA 1083
Db 1021 GCAGCAGCGCCCGCAGGCGCGCGCGAGACCGCAGAGCCCGCGGAGCCCGCTCGAGGAGGA 1080
Qy 1084 GCGGCAGACGCGAGCGCTCTAAACCGCAGCGCGGTGCCCCCGCGCCGAGCGCCGACCT 1143
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Db 1141 CATCTGAAACCGCTGCGAGCAGAGCACCAAGCGGAGTGGCGTCTGCGTCTGAGGCTG 1200
Qy 1204 GAGCGAGTCCCGCAGTAGCGTCTGGCCCTTGGCGCCCGCTGCTGTATATACGTTTC 1263
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Qy 1264 TATAGAGCTCGGCTGTGAGCGCGAGGCGACCGCCGACCCCTGTCCAGCGGGCTCCCG 1323
Db 1261 TATAGAGCTCGGCTGTGAGCGCGAGGCGACCGCCGACCCCTGTCCAGCGGGCTCCCG 1320
Qy 1324 CCACCTCAATAAATGTTGCTTGGAGTGG 1352
Db 1321 CCACCTCAATAAATGTTGCTTGGAGTGG 1349
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US-10-641-643-1176  
 ; Sequence 1176, Application US/10641643  
 ; Publication No. US20040077003A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Cocks, Benjamin G.  
 ; Susan G. Stuart  
 ; Jeffrey J. Seilhamer  
 ; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL  
 ; GENE EXPRESSION  
 ; NUMBER OF SEQUENCES: 1508  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSER: INCYTE PHARMACEUTICALS, INC.  
 ; STREET: 3174 PORTER DRIVE  
 ; CITY: PALO ALTO  
 ; STATE: CALIFORNIA  
 ; COUNTRY: USA  
 ; ZIP: 94304  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/10/641,643  
 ; FILING DATE: 14-Aug-2003  
 ; CLASSIFICATION: <Unknown>  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: <Unknown>  
 ; FILING DATE: <Unknown>  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Zeller, Karen J.  
 ; REGISTRATION NUMBER: 37,071  
 ; REFERENCE/DOCKET NUMBER: PA-0001 US  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (650) 855-0555  
 ; TELEFAX: (650) 845-4166  
 ; INFORMATION FOR SEQ ID NO: 1176:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 1349 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; IMMEDIATE SOURCE:  
 ; LIBRARY: GENBANK  
 ; CLONE: g189050  
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 1176 :

Query Match 94.3%; Score 1303.8; DB 17; Length 1349;  
 Best Local Similarity 98.6%; Pred. No. 0;  
 Matches 1330; Conservative 0; Mismatches 7; Indels 12; Gaps 1;  
 QY 16 GAGCACTGAGGCCACCCAGTCATGGGGACACCTTCATCCGTCACATCGCCCTGCTGGG 75  
 DB 1 GAGCACTGAGGCCACCCAGTCATGGGGACACCTTCATCCGTCACATCGCCCTGCTGGG 60  
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 DB 61 CTTTGAGAGCGCTTCGTATCCAGCCAGCAGCATATGTGTACATGTTCTCGTGAATGGCA 120  
 QY 136 GGAACCTGTCGAGAGAGTGGTCTACCGCGCTTCCACCGAGATCTACGAGTTCCATAAAC 195  
 DB 121 GGAACCTGTCGAGAGAGTGGTCTACCGCGCTTCCACCGAGATCTACGAGTTCCATAAAC 180  
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 DB 181 CTTAAAGAAATGTTCCCTATTGAGCGAGGGGCGGATCAATCCAGAGAACAGGATCATCCC 240  
 QY 256 CCACCTCCAGCTCCCAAGTGGTTTGAAGGGCAGCGGGCGCCGAGAACCCGCGAGGGCAC 315  
 DB 241 CCACCTCCAGCTCCCAAGTGGTTTGAAGGGCAGCGGGCGCCGAGAACCCGCGAGGGCAC 300  
 QY 316 ACTTACCGNGTACTGCAGCACGCTCATGAGCGCTGCCACCAAGATCTCCCGCTGTCCCA 375

DB 301 ACTTACCGAGTACTGCAGCACGCTCATGAGCTGCCACCAAGATCTCCGCTGTCCCA 360  
 QY 376 CTTCTCTGACTTCTTCAAGGTGGCCCTGATGACCTCAAGTCTCCCAAGCAACAGAC 435  
 DB 361 CTTCTCTGACTTCTTCAAGGTGGCCCTGATGACCTCAAGTCTCCCAAGCAACAGAC 420  
 QY 436 AAAAAAGCCAGAGACATCTTGTATGCCAAAGATGCGAAGTACCGGACAGACATCAC 495  
 DB 421 AAAAAAGCCAGAGACATCTTGTATGCCAAAGATGCGAAGTACCGGACAGACATCAC 480  
 QY 496 CGGCCCCATCATCTCTGACAGAGTACCGGCCATTGCCAACTACGAGAAACCTCGGGCTC 555  
 DB 481 CGGCCCCATCATCTCTGACAGAGTACCGGCCATTGCCAACTACGAGAAACCTCGGGCTC 540  
 QY 556 CGAGATGGCTCTGTCCACGGGGGAGCTGGTGGAGTCTGTAGAGAGAGGAGAGCGGTTG 615  
 DB 541 CGAGATGGCTCTGTCCACGGGGGAGCTGGTGGAGTCTGTAGAGAGAGGAGAGCGGTTG 600  
 QY 616 GTGGTTCTGTCAAGATGAAAGCAAGCGAGGCTGGATCCAGCGTCTCTCTCGAGCCCT 675  
 DB 601 GTGGTTCTGTCAAGATGAAAGCAAGCGAGGCTGGATCCAGCATCTCTCTCGAGCCCT 660  
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 DB 781 TGAGTCAATTCAAGCTCTCTGAGCGCTGGTGGTGTATCAGAAAGACAGCTCACAGG 840  
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 QY 964 GCGGTGCGGGAAGCGCTTCAGCCAGGACGCTATCGCGCAACAGCGTCCGTTTCTGCA 1023  
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 DB 1081 GCGGACAGCGAGCGCTCTAAACCGCAGCGCGGTGCCCGCGGCGCGAGCGCGACCT 1140  
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 DB 1141 CATCTGAAACCGCTGACGAGAGACCAACAGCGAAGCTGGCGTCTGCGGCTGAGGGCTG 1200  
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 DB 1201 GAGCGAGTCCCGAGCTAGCGTCTCGGCCCTTGGCGCCCGCTGCTGTATATAGTGTTTC 1260  
 QY 1264 TATAGAGCTCGGCTCTGGAGCGCGAGGAGCGCCGACCCCTGTGTCAGAGCGGCTCCCG 1323  
 DB 1261 TATAGAGCTCGGCTCTGGAGCGCGAGGAGCGCCGACCCCTGTGTCAGAGCGGCTCCCG 1320  
 QY 1324 CCACCTCAATAAATGTTGCTTGGAGTGG 1352  
 DB 1321 CCACCTCAATAAATGTTGCTTGGAGTGG 1349

RESULT 7

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US-10-717-597-232
; Sequence 232, Application US/10717597
; Publication No. US20040110221A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Burczynski, Michael E.
; APPLICANT: Twine, Natalie E.
; APPLICANT: Dörner, Andrew J.
; APPLICANT: Trepicchio, William L.
; APPLICANT: Slonim, Donna K.
; APPLICANT: Stover, Jennifer A.
; TITLE OF INVENTION: METHODS FOR DIAGNOSING RCC AND OTHER SOLID TUMORS
; FILE REFERENCE: AM1010801
; CURRENT APPLICATION NUMBER: US/10/717,597
; CURRENT FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: US 60/459,782
; PRIOR FILING DATE: 2003-04-03
; PRIOR APPLICATION NUMBER: US 60/427,982
; PRIOR FILING DATE: 2002-11-21
; NUMBER OF SEQ ID NOS: 4904
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 232
; LENGTH: 1349
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-717-597-232

Query Match          94.3%; Score 1303.8; DB 18; Length 1349;
Best Local Similarity 98.6%; Pred. No. 0;
Matches 1330; Conservative 0; Mismatches 7; Indels 12; Gaps 1;

QY 16 GAGCAGTGGAGGCCACCCAGTCAATGGGGGACACCTTCATCCGTCACATCGCCCTGCTGGG 75
DB 1 GAGCAGTGGAGGCCACCCAGTCAATGGGGGACACCTTCATCCGTCACATCGCCCTGCTGGG 60
QY 76 CTTTGAGAGCGCTTCGTACCCAGCAGCAGCAGTGTGATCATGTTCTTGGTGAATGGCA 135
DB 61 CTTTGAGAGCGCTTCGTACCCAGCAGCAGCAGTGTGATCATGTTCTTGGTGAATGGCA 120
QY 136 GAGCCTGTGCGAGAGGTGTCTACCGCGCTTACCGAGATCTACGAGTTCCATAAAG 195
DB 121 GAGCCTGTGCGAGAGGTGTCTACCGCGCTTACCGAGATCTACGAGTTCCATAAAG 180
QY 196 CTTAAAGAAATGTTCCATTAGCAGCGGGCGATCAATCCAGAGAACAGATCATCC 255
DB 181 CTTAAAGAAATGTTCCATTAGCAGCGGGCGATCAATCCAGAGAACAGATCATCC 240
QY 256 CGACCTCCAGCTCCCAAGTGTGTTGACGGGAGCGGGCGCGAGAACCGCCAGGGCAC 315
DB 241 CGACCTCCAGCTCCCAAGTGTGTTGACGGGAGCGGGCGCGAGAACCGCCAGGGCAC 300
QY 316 ACTTACCGAGTACTGAGCAGCAGCTCATGAGCCTGCCACCAAGATCTCCGCTGTCCCA 375
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QY 496 CGGCCCCCATCTCTCGAGCAGTACCGCGCATTTGCCAATGACGAGACAGCCTCGGGT 555
DB 481 CGGCCCCCATCTCTCGAGCAGTACCGCGCATTTGCCAATGACGAGACAGCCTCGGGT 540
QY 556 CGAGATGGCTCTCTCCACGGGGGACGTGGTGGAGTCTGTAGAGAGAGCAGAGCGGTG 615
DB 541 CGAGATGGCTCTCTCCACGGGGGACGTGGTGGAGTCTGTAGAGAGAGCAGAGCGGTG 600
QY 616 GTGGTTCTGTGATGAAGAACAGAGGCTGGATCCAGCGTCTTCTCTGAGCCCT 675
DB 1 GTGGTTCTGTGATGAAGAACAGAGGCTGGATCCAGCATCTCTCTCGAGCCCT 660
QY 676 GGACAGTCTGTGAGCAGACGGAAGACCTTGAGCCCAACTATATGACAGGTGAGCATACGTGC 735
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DB 1081 GCGGAGAGCGAGCGCTTAAACCGCAGCGCGGTGCGCGCGCGCGAGCGCGCGACCT 1140
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DB 1141 CATCTTGAACCGCTGCGAGGAGCAGCAGGAGCTGGCTCTGCGCTCTGAGGCTG 1200
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DB 1201 GAGCGAGTCCCGCAGCTAGCGTCTCGGCCCTTGGCCCGCTGTATATATATATATAT 1260
QY 1264 TATAGAGCTGGCGTCTGAGCGCGGAGGAGCGCGCGCGCGCGCGCGCGCGCGCGCG 1323
DB 1261 TATAGAGCTGGCGTCTGAGCGCGGAGGAGCGCGCGCGCGCGCGCGCGCGCGCGCG 1320
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DB 1321 CCACCTCTCAATAAATGTTGCTTGGAGTGG 1349

RESULT 8
US-10-775-169-110
; Sequence 110, Application US/10775169
; Publication No. US20040175743A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Burczynski, Michael
; APPLICANT: Twine, Natalie
; APPLICANT: Dörner, Andrew
; APPLICANT: Trepicchio, William
; TITLE OF INVENTION: Method for Monitoring Drug Activities In Vivo
; FILE REFERENCE: AM101080 (031896-013000)
; CURRENT APPLICATION NUMBER: US/10/775,169
; CURRENT FILING DATE: 2004-02-11
; NUMBER OF SEQ ID NOS: 5278
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 110
; LENGTH: 1349
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-775-169-110
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Qy 448 GACATCTTGATGCGCAAGATGCGAAGTGTACCGGACAGACATCAACGCGCCCATCAT 507
Db 421 GACATCTTGATGCGCAAGATGCGAAGTGTACCGGACAGACATCAACGCGCCCATCAT 480
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Db 481 CTTGCAGACGTACCGCGCCATTGCGCACTACGAGAAGACCTCGGGCTCCGAGATGGCTCT 540
Qy 568 GTCCACGGGGGACGTGTGTGAGGTGCTAGAGAGAGAGAGCGGTGGTGGTCTGTCA 627
Db 541 GTCCACGGGGGACGTGTGTGAGGTGCTGTGAGAGAGAGAGCGGTGGTGGTCTGTCA 600
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Db 601 GATGAAGCAAGCGAGCTGGATCCAGCATCTCTCCGAGCCCGTGCAGACGTCTGA 660
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Db 901 GCGCGCGCCCGCAGAGTGTCTCATCGCAACCGGCAACAGATCCACAGCGGTGCGGAA 960
Qy 976 GCGCTCTAGCGAGACGCTTATCGCGCAACAGAGTCTCGTTTCTGAGCAGGACGCGG 1035
Db 961 GCGCTCTAGCGAGACGCTTATCGCGCAACAGAGTCTCGTTTCTGAGCAGGACGCGG 1020
Qy 1036 CCAGGCGCGCGCGAGCGCAGAGCCCGGAGCCGCTCGAGGAGGAGCGGACGCA 1095
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Qy 1156 CTGAGCGAGAGCAGCAGCGGAAGCTGGGCTGTGCGCTGTGAGGCTGAGCGGAGTCC 1215
Db 1141 CTGAGCGAGAGCAGCAGCGGAAGCTGGGCTGTGCGCTGTGAGGCTGAGCGGAGTCC 1200
Qy 1216 CAGCTAGCGTCTGGGCTTGGCGCCCGGCTGTATATACGTGTCTATAGAGCTGG 1275
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Qy 1276 CGTCTGAGCCGAGGAGCGCCGAGCCCTGTGTCAGCGGGGTCCGCGCACCTCAATA 1335
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Db 1321 AATGTTGCTTGAGTGAA 1339
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RESULT 10

US-10-437-427-1

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; Sequence 1, Application US/10437427
; Publication No. US2004009901A1
; GENERAL INFORMATION:
; APPLICANT: Rikard Holmdahl
; TITLE OF INVENTION: Autoimmune Conditions and NADPH Oxidase
; TITLE OF INVENTION: Defects
; FILE REFERENCE: 11145-024001
; CURRENT APPLICATION NUMBER: US/10/437,427
; PRIOR FILING DATE: 2003-05-13
; PRIOR APPLICATION NUMBER: US 60/380,904
; PRIOR FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: US 60/429,609
; PRIOR FILING DATE: 2002-11-27
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1349
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; US-10-437-427-1
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Query Match 54.9%; Score 758.6; DB 17; Length 1349;

Best Local Similarity 78.6%; Pred. No. 5.7e-197;

Matches 953; Conservative 0; Mismatches 239; Indels 21; Gaps 3;

Qy 31 CCACGATATGGGGGACACCTTCATCGGTCAATCGCCCTCTCGGGCTTTGAGAGCGCTT 90

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Qy 151 GGTGGTCTACCGCGCTTCAACCGAGATCTACGAGTTCATAAAACCTTTAAAGAAATGTT 210

Db 128 GGTGGTCTACAGAAATTCACCGAGATCTACGAGTTCATAAAATGTTAAAGGATGTT 187

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Qy 331 CAGCAGCTCATCAGCGCTGCCCAACAGATCTCCCGCTGTCGCCACCTCTCGACTTCTT 390

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Db 668 GGCAGAGGACCCCGATCCCACTACGAGGTGAACGATGTGTAAACCATCAAGCGTACGC 727

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DB 788 GCTCTAGATGGCTGGTGGTGGTCAGGAAGGGGACATCACCGGCTACTTCCCATCCAT 847  
QY 859 GTACTGCAAAAGTCAAGGCAAGAGTGTCCAGGCCCCAAGCCAGAT---CAAGCGGG 915  
DB 848 GTATCTGAGAAGGCTGGGGAGGAGATAACCCAGGCCCCAGCGACAGATTAGAAGCCGCG 907  
QY 916 GCGCGCGCGCGCGAGTGTCTCATCCGCAACGCGCAGAGATCCACAGGCGTCCGCGGAA 975  
DB 908 GGCACCACTCGCAGGTGACCATCCGCAATGACAGAGCATCCACAGGCTTCTCGGAA 967  
QY 976 GCGCTCAGCAGACGCGCTATCCCGCAACAGCGTCCGTTTCTGAGCAGCGACGCG 1035  
DB 968 GCGCTCAGCAGACACCTATCCGCGCAACAGCGTCCGATTCCTGAGCAGCGACAG 1027  
QY 1036 CCAGCGCGCGCGGACGAGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1095  
DB 1028 CCG 1081  
QY 1096 GCGCTCTAAACCG 1155  
DB 1082 GCG 1141  
QY 1156 CTGAGCGAGAGCAGCAGCGGAGAGTGGCGTCTGCGTCTGAGGCTGGAGCGCGTCC 1215  
DB 1142 CTGAGCAGAGAGCAGCAGGAGAACTGAGCTCGCGCGTGTGAGGCGCGCGTGC 1201  
QY 1216 CAGCTAGCGCTC 1228  
DB 1202 AGCGGCTCTATC 1214

## RESULT 11

US-10-437-427-3  
; Sequence 3, Application US/10437427  
; Publication No. US20040009901A1  
; GENERAL INFORMATION:  
; APPLICANT: Rikard Holmdahl  
; APPLICANT: Peter Olofsson  
; TITLE OF INVENTION: Autoimmune Conditions and NADPH Oxidase  
; FILE OF INVENTION: Defects  
; FILE REFERENCE: 11145-024001  
; CURRENT APPLICATION NUMBER: US/10/437,427  
; CURRENT FILING DATE: 2003-05-13  
; PRIOR APPLICATION NUMBER: US 60/380,904  
; PRIOR FILING DATE: 2002-05-13  
; PRIOR APPLICATION NUMBER: US 60/429,609  
; PRIOR FILING DATE: 2002-11-27  
; NUMBER OF SEQ ID NOS: 8  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3  
; LENGTH: 1331  
; TYPE: DNA  
; ORGANISM: Rattus norvegicus  
US-10-437-427-3

Query Match 54.9%; Score 758.2; DB 17; Length 1331;  
Best Local Similarity 78.6%; Pred. No. 7.3e-197;  
Matches 952; Conservative 0; Mismatches 238; Indels 21; Gaps 3;

QY 33 CAGTCATGGGGACACCTTCATCCGTCACATCGCCCTGTGGGCTTTGAAAGCGTTCG 92  
DB 1 CAGCCATGGGGGACACCTTCATTCGGCACATCGCCCTCTCGGCTTCGAGAAACGCTTCG 60  
QY 93 TACCCAGCAGCACTATGTGTACATGTTCTCTGTGAAATGGCAGGACCTCTCGGAGAGG 152  
DB 61 TCCCCAGCCAACTATGTGTACATGTTCTCTGTGAAATGGCAGGACCTCTCGGAGAGG 120

QY 153 TGCTCTACCGCGCTTCCCGAGATCTACGAGTTCCATAAAACCTTAAAGAAATGTTCC 212  
DB 121 TGCTCTACAGAAATTTACCGAGATCTACGAGTTCCATAAAATGTTAAAGGAGATGTTCC 180  
QY 213 CTATTGAGGCGAGGGCGATCAATCCAGAGAACAGGATCATCCCGCCACCTCCAGGCTCCCA 272  
DB 181 CCATTGAGCGGTGAGATCCACAGAGAAAACAGAGTCACTCCCTCACCTCCAGCTCCCA 240  
QY 273 AGTGTGTTGACGCGGACGCGGCGCGAGAACCGCGCAGGCAACATTAACGAGTACTGCA 332  
DB 241 GGTGTGATGATGCGGACGCGTGCAGCGAGAGCGCGCAGGAAACGCTCACCGAGTACTTCA 300  
QY 333 GCAGGCTCATGAGCCTGCCACCAAGATCTCCCGCTGTCCCGACCTCTCGACTTCTTCA 332  
DB 301 ACAGCTCATGAGGACTGCGCGTGAAGATCTCCCGCTGCCACACCTCTTGAACCTTTTCA 360  
QY 393 AGTGCGCGCTCATGATACCTCAAGCTCCCGCAACGAGAACACAGACAAAGGCGCAGAGCAT 452  
DB 361 AAGTGCGCGCGCTCATGATACCTCAAGCTCCCGCAACGAGAACACAGAGAACGAGAGCAT 420  
QY 453 ACTTGATGCGCAAGATGCGGAGAGTACCGCGACAGACATCACCGCGCGCGCTCTCTGCA 512  
DB 421 ACCTGACGCGCAAGATGCGGAGAGTATATGTAGCTGACATCACCGGCTCCCATCATCTTC 480  
QY 513 AGACGTACCGCGCATTTGCCAATACGAGAACGCTCCGCGCTCCGAGATGCTCTGCA 572  
DB 481 AGACCTATCGCGCATTCGCTGACTACGAGAGGTTTCAAAACAGAGATGACCGTGGCGA 540  
QY 573 CGGGGACCTGTGTGAGGTGCTGAGAGAGAGGAGCGGTTGGTGGTCTGTGATGCA 632  
DB 541 CGGGAGATGTGTGATGCTGAGAGAAAGCGAGAGTGGTGGTGGTGGTGGTGGTGGTGG 600  
QY 633 AAGCAAGCGAGCTGGATCCAGCGTCTTCTCGAGCGCTTCTCGAGCGCTTCTGAGCAGA 692  
DB 601 AGACAAACGAGTTGGGTCCCTGCTATCTTATTTGGAGCGCTTGAAGAGCGCTGAGG 660  
QY 693 CGGAGACCTCGAGCGCAACTATGAGGTGAGCCTACGTCGCGCATCAAGGCGCTACACTG 752  
DB 661 CAGAGACCGCGATTCCTCAACTACGAGGTGAACGCTATGTAACCATCAAGGCTGAGCTG 720  
QY 753 CTGTGAGGGGACGAGGTGCTCTCTCGAGGTTGAAGCTGTGAGGTCAATTCACAGC 812  
DB 721 CTGTTGAGAGGATGAGGTGCTCCCTGCTGAGGTTGAAGCCATCGAGGTCAATTCATAAG 780  
QY 813 TCCTGAGCGGCT-----GGAAGACGAGCTGACAGGCTACTTCCCGTCCATGT 860  
DB 781 TCCTAGATGGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 840  
QY 861 ACTTGCAAAAGTCAGGGCAAGAGCTGTCCAGCGCGCGCGCGCGCGCGCGCGCGCGCG 917  
DB 841 ATCTGAGAGAGGCTGGGAGGAGATTAACCCAGCGCGCGCGCGCGCGCGCGCGCGCG 900  
QY 918 CGCGCGCGCGCGAGGTGCTCCATCCGCAACGCGCAGCATCCACAGCGGTTCGCGGAGC 977  
DB 901 CACCACTCGCAGGTGCGACCATCCGCAATGACAGAGATCCACAGCGGTTCCTCGAAGC 960  
QY 978 GCCTCAGCAGGACGCTATCGCGCAACAGCGTCCGTTTCTGCGAGCGAGCGCGCGCG 1037  
DB 961 GCCTCAGCAGGACACCTATCGCGCAACAGCGTCCGATTCCTGAGCAGCGAGCGCGCG 1020  
QY 1038 AGCGCGCGCGCGGACCGCAGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1097  
DB 1021 CG 1074  
QY 1098 GCTCTAAACCG 1157  
DB 1075 GCGCCAAACCAAGCGCTGCGGTGCGTCCGAGACCGAGCTCGGACCTCATCTCTGCAAG 1134  
QY 1158 GCAGCGAGGACCAAGCGGAGCTGGGCTGCGGCTGAGGCTGGAGCGGAGTCCCA 1217  
DB 1135 GCACAGAGAGCAGCGGAGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGG 1194

QY 1218 GCTAGCGTCTC 1228  
Db 1195 GCGTCTATC 1205

## RESULT 12

US-10-723-860-1749  
; Sequence 1749, Application US/10723860  
; Publication No. US20040253606A1  
; GENERAL INFORMATION:  
; APPLICANT: Aziz, Natasha  
; APPLICANT: Ginsburg, Wendy M.  
; APPLICANT: Zlotnik, Albert  
; TITLE OF INVENTION: Methods of Diagnosis of Soft Tissue Sarcoma, Compositions &  
; FILE OF INVENTION: Methods for Screening for Soft Tissue Sarcoma Modulators  
; FILE REFERENCE: 05882.0193.NPUS01  
; CURRENT APPLICATION NUMBER: US/10723,860  
; PRIOR FILING DATE: 2003-11-26  
; PRIOR APPLICATION NUMBER: 60/429,739  
; PRIOR FILING DATE: 2002-11-26  
; NUMBER OF SEQ ID NOS: 8393  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 1749  
; LENGTH: 545  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-723-860-1749

Query Match 37.6%; Score 520; DB 18; Length 545;  
Best Local Similarity 99.8%; Pred. No. 7.8e-132; Indels 1; Gaps 1;  
Matches 531; Conservative 0; Mismatches 0;  
QY 1 CTGGAAGTGCAGGGAGCACTGGAGGCCACCCAGTCAATGGGGACACCTTTCATCCGTCA 60  
Db 15 CTGGAAGTGCCA-GGAGCACTGGAGGCCACCCAGTCAATGGGGACACCTTTCATCCGTCA 73  
QY 61 CATGCCCTCTGGGCTTTGAGAAGCGCTTCGTACCCAGCAGCAGTATGTATCATGTT 120  
Db 74 CATGCCCTCTGGGCTTTGAGAAGCGCTTCGTACCCAGCAGCAGTATGTATCATGTT 133  
QY 121 CTGGTCAAAATGGCAGACCTGTCCGAGAAGTGTCTACCGGCTTCACCGAGATCTA 180  
Db 134 CTGGTCAAAATGGCAGACCTGTCCGAGAAGTGTCTACCGGCTTCACCGAGATCTA 193  
QY 181 CGAGTTCATAAAACCTTTAAAGAAATGTTCCCTATTAGGCGAGGGCGATCAATCCAGA 240  
Db 194 CGAGTTCATAAAACCTTTAAAGAAATGTTCCCTATTAGGCGAGGGCGATCAATCCAGA 253  
QY 241 GAACAGGATCATCCCCACCTCCAGCTCCCAAGTGTGAGCGGCGGGCGCGCA 300  
Db 254 GAACAGGATCATCCCCACCTCCAGCTCCCAAGTGTGAGCGGCGGGCGCGCA 313  
QY 301 GAACCGCAGGCGACACTTACCGAGTACTCAGCAGCCTCATGAGCCTGCCACCAAGAT 360  
Db 314 GAACCGCAGGCGACACTTACCGAGTACTCAGCAGCCTCATGAGCCTGCCACCAAGAT 373  
QY 361 CTCCCGTGTCCCACTCCCTCCAGTCTTCTCAAGGTGCGCCCTGATCACTCAAGTCCC 420  
Db 374 CTCCCGTGTCCCACTCCCTCCAGTCTTCTCAAGGTGCGCCCTGATCACTCAAGTCCC 433  
QY 421 CAGGACAACAGACAAAAAGCCAGAGACATCTGATGCCCAAGATGGCAAGATAC 480  
Db 434 CAGGACAACAGACAAAAAGCCAGAGACATCTGATGCCCAAGATGGCAAGATAC 493  
QY 481 CGGACAGACATCACCGGCGCCCATCATCTCCGACAGCTACCGGCGCATTTGCC 532  
Db 494 CGGACAGACATCACCGGCGCCCATCATCTCCGACAGCTACCGGCGCATTTGCC 545

## RESULT 13

US-10-723-860-1749  
; Sequence 2, Application US/10202724  
; Publication No. US20030108975A1

## GENERAL INFORMATION:

; APPLICANT: Warner Lambert Company  
; TITLE OF INVENTION: Method for the screening of compounds that inhibit the  
; FILE OF INVENTION: interaction between a proline-rich peptide and a SH3  
; FILE REFERENCE: HTRF-SH3 Domains - Warner Lambert  
; CURRENT APPLICATION NUMBER: US/10/202,724  
; CURRENT FILING DATE: 2002-07-24  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 402  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-202-724-2

Query Match 26.0%; Score 360; DB 15; Length 402;  
Best Local Similarity 95.8%; Pred. No. 4e-88; Indels 12; Gaps 1;  
Matches 385; Conservative 0; Mismatches 5;  
QY 488 GACATCACCGGCCCATCATCTCTGCAGACGTACCGGCCCATTCGCAACTACGAGAAGACC 547  
Db 1 GACATCACCGGCCCATCATCTCTGCAGACGTACCGGCCCATTCGCAACTACGAGAAGACC 60  
QY 548 TCGGGCTCCGAGATGGCTCTGTCCACGGGGGACGTGTGTGAGGTCTGTGAGAGAGCGAG 607  
Db 61 TCGGGCTCCGAGATGGCTCTGTCCACGGGGGACGTGTGTGAGGTCTGTGAGAGAGCGAG 120  
QY 608 AGCGTTGGTGGTCTGTCTAGATGAAGCAAGCGAGCTGATCCAGCGCTCTCTCTC 667  
Db 121 AGCGTTGGTGGTCTGTCTAGATGAAGCAAGCGAGCTGATCCAGCGCTCTCTCTC 180  
QY 668 GAGCCCTCTGCACAGTCTCTGCAGAGCGGAAGACCCCTGAGCCCACTATGCAAGTGAGCCA 727  
Db 181 GAGCCCTCTGCACAGTCTCTGCAGAGCGGAAGACCCCTGAGCCCACTATGCAAGTGAGCCA 240  
QY 728 TAGTCGCCATCAAGCGCTTACCTGTGTGAGGGGACGAGGTGTCCTGTCTGAGGGT 787  
Db 241 TAGTCGCCATCAAGCGCTTACCTGTGTGAGGGGACGAGGTGTCCTGTCTGAGGGT 300  
QY 788 GAAGCTGTTGAGGTCTTCAAGCTTCAAGCTTCAAGCTTCAAGCTTCAAGCTTCAAGCTT 835  
Db 301 GAAGCTGTTGAGGTCTTCAAGCTTCAAGCTTCAAGCTTCAAGCTTCAAGCTTCAAGCTT 360  
QY 836 GTCAAGGCTTACTTCCCGTCCATGTACCTGCAAAAGTCAGGG 877  
Db 361 GTCAAGGCTTACTTCCCGTCCATGTACCTGCAAAAGTCAGGG 402

## RESULT 14

US-09-925-299-448  
; Sequence 448, Application US/09925299  
; Patent No. US20020055627A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
; FILE REFERENCE: PA102  
; CURRENT APPLICATION NUMBER: US/09/925,299  
; CURRENT FILING DATE: 2001-08-10  
; PRIOR APPLICATION NUMBER: PCT/US00/05883  
; PRIOR FILING DATE: 2000-03-08  
; PRIOR APPLICATION NUMBER: 60/124,270  
; PRIOR FILING DATE: 1999-03-12  
; NUMBER OF SEQ ID NOS: 1556  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 448  
; LENGTH: 425  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-925-299-448

Query Match 23.4%; Score 323.8; DB 9; Length 425;  
Best Local Similarity 84.1%; Pred. No. 3.2e-78;

Matches	423;	Conservative	0;	Mismatches	2;	Indels	78;	Gaps	2;
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Qy	44	GACACCTTTATCCGTCACATCGCCCTGCTGGGCTTTGAGAAGCGCTTCGTACCCAGCCAG	103
Db	1	GACACCTTCATCCGTCACATCGCCCTGCTGGGCTTTGAGAAGCGCTTCGTACCCAGCCAG	60
Qy	104	CACATATGTATCATGTTCTCGTGAATATGGCAGACCTGTGCGAGAAAGTGGTCTACCGG	163
Db	61	CACATA--TGTACATGTTCTGCTGAATATGGCAGACCTGTGCGAGAAAGTGGTCTACCGG	118
Qy	164	CGCTTTCACCGAGATCTACGAGTTCATATAAAACCTTAAAGAAATGTTCCCTATTGAGCA	223
Db	119	CGCTTTCACCGAGATCTACGAGTTCAT-----	145
Qy	224	GGGCGCATCAATCCAGAGAACAGGATCATCCCCCAGCTCCAGCTCCCAAGTGGTTTGAC	283
Db	146	-----CTCCCAAGTGGTTTGAC	162
Qy	284	GGGAGGCGGCGCGCGAGAACCGGCAGGCGACATTAACGAGTACTGCGAGCACGCTCATG	343
Db	163	GGGAGGCGGCGCGCGAGAACCAACGAGGCGACATTAACCGAGTACTGCGGCAGCGCTCATG	222
Qy	344	AGCCTGCCCAACCAAGATCTCCGCGTGTCCCGACCTCTCGACTTCTTCAAGGTGCGCCCT	403
Db	223	AGCCTGCCCAACCAAGATCTCCGCGTGTCCCGACCTCTCGACTTCTTCAAGGTGCGCCCT	282
Qy	404	GATGACCTCAAGCTCCCCACGAGCAACAGCAACCAAGCAAGCAAGCAAGCATACTTGGATGCC	463
Db	283	GATGACCTCAAGCTCCCCACGAGCAACAGCAACCAAGCAAGCAAGCAAGCATACTTGGATGCC	342
Qy	464	AAAGATGGCAAGTATCGGCGAGAGACATCAACGGCGCCATCATCTCTGCGAGACGTACCGC	523
Db	343	AAAGATGGCAAGTATCGGCGAGAGACATCAACGGCGCCCATCATCTCTGCGAGACGTACCGC	402
Qy	524	GCCATTGCCAACTACGAGAGAC	546
Db	403	GCCATTGCCAACTACGAGAGAC	425

  

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RESULT 15
US-09-925-299-448
; Sequence 448, Application US/09925299
; Publication No. US20030040617A9
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA102
; CURRENT APPLICATION NUMBER: US/09/925,299
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05883
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1556
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID.NO 448
; LENGTH: 425
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-299-448

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Query Match	23.4%	Score 323.8;	DB 10;	Length 425;
Best Local Similarity	84.1%;	Pred. No. 3.2e-78;		
Matches 423;	Conservative 0;	Mismatches 2;	Indels 78;	Gaps 2;

  

Qy	44	GACACCTTCATCCGTCA	CATCGCCCTCTCGGCTTTGAGAAGCGCTTCGTACCCAGCCAG	103
Db	1	GACACCTTCATCCGTCA	TCATCGCCCTCTCGGCTTTGAGAAGCGCTTCGTACCCAGCCAG	60
Qy	104	CACATATGTGTACATGTTCTCTGGTGA	ATATGCGAGGACCTGTCGAGAGAGTGGTCTACCGG	163
Db	61	CACATA--TGTA	CATGTTCTCTGGTGAATATGCGAGGACCTGTCGAGAGAGTGGTCTACCGG	118

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OM nucleic - nucleic search, using sw model

Run on: April 25, 2005, 08:46:32 ; Search time 273 Seconds  
(without alignments)  
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Title: US-10-767-341-1  
Perfect score: 1382  
Sequence: 1 cctggaagtccaggagca.....aaaaaaaaaaaaaaaaaa 1382

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 81813359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents NA.\*  
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2: /cgn2\_6/prodata/1/ina/5B COMB.seq.\*  
3: /cgn2\_6/prodata/1/ina/6A COMB.seq.\*  
4: /cgn2\_6/prodata/1/ina/6B COMB.seq.\*  
5: /cgn2\_6/prodata/1/ina/PCTUS COMB.seq.\*  
6: /cgn2\_6/prodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1382	100.0	1382	4	US-09-820-005-1
2	1382	100.0	1382	4	US-10-109-856-1
3	1303.8	94.3	1349	4	US-09-023-655-1176
4	280.6	20.3	18853	4	US-09-820-005-3
5	280.6	20.3	18853	4	US-10-109-856-3
6	119.2	8.6	870	4	US-09-808-701A-4
7	52.6	3.8	14382	4	US-09-902-540-1145
8	51.8	3.7	1902	4	US-09-902-540-8758
9	51.8	3.7	9556	4	US-09-902-540-929
10	48.8	3.5	2172	4	US-09-252-991A-1708
11	48.8	3.5	2241	4	US-09-252-991A-2016
12	48.8	3.5	2247	4	US-09-252-991A-1856
13	48.8	3.5	2943	4	US-09-949-016-207
14	47.8	3.5	1428	4	US-09-710-693-18
15	47.8	3.5	1803	3	US-09-006-428A-18
16	47.8	3.5	1803	4	US-09-615-387C-18
17	47.8	3.5	1858	3	US-09-006-428A-16
18	47.8	3.5	1858	4	US-09-615-387C-16
19	47.2	3.4	600	4	US-09-902-540-4951
20	47.2	3.4	27219	4	US-09-902-540-1244
21	46.4	3.4	2115	2	US-08-474-79C-60
22	46.4	3.4	2115	3	US-09-146-249A-60
23	46.4	3.4	2115	3	US-08-206-188B-60
24	46	3.3	639	4	US-09-252-991A-12567
25	46	3.3	734	3	US-09-149-476-243
26	46	3.3	1422	4	US-09-252-991A-13065
27	46	3.3	1485	4	US-09-252-991A-12874

28	46	3.3	2511	4	US-09-919-497-36	Sequence 36, Appl	
29	45.6	3.3	1050	4	US-09-482-273-58	Sequence 58, Appl	
30	45.4	3.3	2561	4	US-09-616-289-48	Sequence 48, Appl	
C	31	45.2	3.3	1416	4	US-09-902-540-4910	Sequence 4910, Ap
	32	45.2	3.3	28493	4	US-09-902-540-1241	Sequence 1241, Ap
C	33	44.4	3.2	1746	4	US-09-902-540-9092	Sequence 9092, Ap
	34	44.4	3.2	2004	1	US-08-471-033-18	Sequence 18, Appl
	35	44.4	3.2	2004	2	US-08-471-044-18	Sequence 18, Appl
	36	44.4	3.2	2004	2	US-08-463-483A-18	Sequence 18, Appl
	37	44.4	3.2	2004	2	US-08-471-046A-18	Sequence 18, Appl
	38	44.4	3.2	2004	2	US-08-470-566B-18	Sequence 18, Appl
	39	44.4	3.2	2004	2	US-08-469-334-18	Sequence 18, Appl
	40	44.4	3.2	2004	3	US-09-300-529-18	Sequence 18, Appl
	41	44.4	3.2	2576	1	US-08-471-033-35	Sequence 35, Appl
	42	44.4	3.2	2576	2	US-08-471-044-35	Sequence 35, Appl
	43	44.4	3.2	2576	2	US-08-463-483A-35	Sequence 35, Appl
	44	44.4	3.2	2576	2	US-08-471-046A-35	Sequence 35, Appl
	45	44.4	3.2	2576	2	US-08-470-566B-35	Sequence 35, Appl

ALIGNMENTS

RESULT 1  
US-09-820-005-1  
; Sequence 1, Application US/09820005  
; Patent No. 6489149  
; GENERAL INFORMATION:  
; APPLICANT: SHAO, Wei et al  
; TITLE OF INVENTION: ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC  
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES  
; FILE REFERENCE: CL001198  
; CURRENT APPLICATION NUMBER: US/09/820,005  
; CURRENT FILING DATE: 2001-03-29  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 1382  
; TYPE: DNA  
; ORGANISM: Human  
US-09-820-005-1

Query Match		100.0%;	Score 1382;	DB 4;	Length 1382;
Best Local Similarity		100.0%;	Pred. No. 0;		
Matches 1382;		Conservative	0;	Mismatches	0;
				Indels	0;
				Gaps	0;
Qy	1	CCTGGAAGTCCAGGAGCAGCTGGAGGCCACCCAGTCATGGGGGACACCTTCATCCGTCA	60		
Db	1	CCTGGAAGTCCAGGAGCAGCTGGAGGCCACCCAGTCATGGGGGACACCTTCATCCGTCA	60		
Qy	61	CATCGCCCTGCTGGGCTTTGAGAAGCGCTTCTACCCAGCCAGCAGCTATGTGTACATGTT	120		
Db	61	CATCGCCCTGCTGGGCTTTGAGAAGCGCTTCTACCCAGCCAGCAGCTATGTGTACATGTT	120		
Qy	121	CCTGTTGAAATGGCAGGACCTCTCGGAGAAGTGGTCTACCCGGCGCTTCACCGAGATCTA	180		
Db	121	CCTGTTGAAATGGCAGGACCTCTCGGAGAAGTGGTCTACCCGGCGCTTCACCGAGATCTA	180		
Qy	181	CGAGTTCCATAAAACCTTAAAGAAATGTTCCCTATTGAGGAGGGGGCGATCAATCCAGA	240		
Db	181	CGAGTTCCATAAAACCTTAAAGAAATGTTCCCTATTGAGGAGGGGGCGATCAATCCAGA	240		
Qy	241	GAAACAGGATCATCCCCACCTCCAGCTCCCAAGTGGTTTGACGGSCAGCGGGCGCCGA	300		
Db	241	GAAACAGGATCATCCCCACCTCCAGCTCCCAAGTGGTTTGACGGSCAGCGGGCGCCGA	300		
Qy	301	GAAACGGCAGGGCAGACATTTACCGAGTACTGACAGCAGCTCATGAGCTGCCACCAAGAT	360		
Db	301	GAAACGGCAGGGCAGACATTTACCGAGTACTGACAGCAGCTCATGAGCTGCCACCAAGAT	360		
Qy	361	CTCCGCTGTGCCCACTCTCTCGATTTCTTAAAGTGGCGCCCTGATGAGCTCAAGTCCC	420		
Db	361	CTCCGCTGTGCCCACTCTCTCGATTTCTTAAAGTGGCGCCCTGATGAGCTCAAGTCCC	420		

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Db 361 CTCCTCCGCTGTCCCACTCTCTCGACTTCTTCAAGGTGGCCCTGTATGACCTCAAGCTCCC 420
QY 421 CACGACACACAGACAAAAAGCCAGACATCTTGTATGCCCAAGATGGCAAGATAC 480
Db 421 CACGACACACAGACAAAAAGCCAGACATCTTGTATGCCCAAGATGGCAAGATAC 480
QY 481 CCGCAGACATCATCCGGCCCATCATCTGTCAGACGTACCGCGCATTTGCCAATACGA 540
Db 481 CCGCAGACATCATCCGGCCCATCATCTGTCAGACGTACCGCGCATTTGCCAATACGA 540
QY 541 GAAGACCTCGGCTCCGAGATGGCTCTGTCTGATGAAAGCAAGCGAGGCTGGATCCAGCGTC 600
Db 541 GAAGACCTCGGCTCCGAGATGGCTCTGTCTGATGAAAGCAAGCGAGGCTGGATCCAGCGTC 600
QY 601 GAGCGAGACGGTGTGTGTCTGTCTGATGAAAGCAAGCGAGGCTGGATCCAGCGTC 660
Db 601 GAGCGAGACGGTGTGTGTCTGTCTGATGAAAGCAAGCGAGGCTGGATCCAGCGTC 660
QY 661 CTTCTCGAGCCCTCGACAGTCTTGAACGAGACCGTCTGAGCCCACTATGCAAG 720
Db 661 CTTCTCGAGCCCTCGACAGTCTTGAACGAGACCGTCTGAGCCCACTATGCAAG 720
QY 721 TGAGCCATACGTCCGATCAAGCCCTACCTCTGTGAGGGGAGCGAGGTGCTCCGT 780
Db 721 TGAGCCATACGTCCGATCAAGCCCTACCTCTGTGAGGGGAGCGAGGTGCTCCGT 780
QY 781 CGAGGTGAAGCTGTGTGAGTCAATTCACAAAGTCTTGAAGCGCTGGAAGAGAGAGTCA 840
Db 781 CGAGGTGAAGCTGTGTGAGTCAATTCACAAAGTCTTGAAGCGCTGGAAGAGAGAGTCA 840
QY 841 AGGCTACTTCCGCTCCATGCTACCTGCAAAAGTCAAGGAGAGAGTGTCCAGGCCAACG 900
Db 841 AGGCTACTTCCGCTCCATGCTACCTGCAAAAGTCAAGGAGAGAGTGTCCAGGCCAACG 900
QY 901 CCAGATCAAGCGGGGGGCGCGCGCGAGTCTTCCATCCGCAAGCGGCAAGATCCA 960
Db 901 CCAGATCAAGCGGGGGGCGCGCGCGAGTCTTCCATCCGCAAGCGGCAAGATCCA 960
QY 961 CCAGCGGTCCGCGAAGCGCTCAGCGAGGAGCGCTTATCCGCGCAAGCGGTCCGTTTCT 1020
Db 961 CCAGCGGTCCGCGAAGCGCTCAGCGAGGAGCGCTTATCCGCGCAAGCGGTCCGTTTCT 1020
QY 1021 GCAGAGCGACCGCGCGCGCGCGCGGAGCGCGAGCGCGCGCGCGCGCGCGCGCG 1080
Db 1021 GCAGAGCGACCGCGCGCGCGCGCGGAGCGCGAGCGCGCGCGCGCGCGCGCGCG 1080
QY 1081 GAGCGGCGAGCGCGCGCTTAACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1140
Db 1081 GAGCGGCGAGCGCGCGCTTAACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1140
QY 1141 CCTCATCTGAACCGCTGAGCGAGAGCACCAAGCGGAGCTGGCGTCTGCGGTCTGAGG 1200
Db 1141 CCTCATCTGAACCGCTGAGCGAGAGCACCAAGCGGAGCTGGCGTCTGCGGTCTGAGG 1200
QY 1201 CTGAGCGCAGTCCCGAGTCTGCGCGCTTTCGCGCGCGCGCGCGCGCGCGCGCG 1260
Db 1201 CTGAGCGCAGTCCCGAGTCTGCGCGCTTTCGCGCGCGCGCGCGCGCGCGCGCG 1260
QY 1261 TTCTATAGCCTGGCGTCTGAGCGCGGAGCGCGCGCGCGCGCGCGCGCGCGCG 1320
Db 1261 TTCTATAGCCTGGCGTCTGAGCGCGGAGCGCGCGCGCGCGCGCGCGCGCGCG 1320
QY 1321 CCGCCACCTCAATAAATGCTGTGAGTGAAGAAAAAAGAAAAAAGAAAAAAGAAAA 1380
Db 1321 CCGCCACCTCAATAAATGCTGTGAGTGAAGAAAAAAGAAAAAAGAAAAAAGAAAA 1380
QY 1381 AA 1382
Db 1381 AA 1382
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RESULT 2

US-10-109-856-1

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; Sequence 1, Application US/10109856
; Patent No. 6709850
; GENERAL INFORMATION:
; APPLICANT: SHAO, Wei et al.
; TITLE OF INVENTION: ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES
; FILE OF INVENTION: THEREOF
; FILE REFERENCE: CL001198DIV
; CURRENT APPLICATION NUMBER: US/10/109,856
; CURRENT FILING DATE: 2002-04-01
; PRIOR APPLICATION NUMBER: 09/820,005
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1382
; TYPE: DNA
; ORGANISM: Homo sapien
; US-10-109-856-1
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Query Match 100.0%; Score 1382; DB 4; Length 1382;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1382; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTTGGAAGTGCAGGGAGCACTGGAGGCCACCCAGTCAATGGGGGACACTTCATCCGTCA 60
Db 1 CTTGGAAGTGCAGGGAGCACTGGAGGCCACCCAGTCAATGGGGGACACTTCATCCGTCA 60
QY 61 CATCGCCCTGTGGGCTTTGAGAGCGCTTGTACCCAGCCAGCACTATGTGTACATGTT 120
Db 61 CATCGCCCTGTGGGCTTTGAGAGCGCTTGTACCCAGCCAGCACTATGTGTACATGTT 120
QY 121 CTTGTGAAATGGCAGGACCTGTTCGAGAAAGTGTCTACCGCGCTTACCAGCAATCTA 180
Db 121 CTTGTGAAATGGCAGGACCTGTTCGAGAAAGTGTCTACCGCGCTTACCAGCAATCTA 180
QY 181 CGAGTTCATAAACCTTAAAGAAATGTTCCCTATTGAGGAGGGGGGATCAATCCAGA 240
Db 181 CGAGTTCATAAACCTTAAAGAAATGTTCCCTATTGAGGAGGGGGGATCAATCCAGA 240
QY 241 GACAGGATCATCCCGCCACCTCCAGCTCCCAAGTGGTTTGACGGGAGCGGGCGCGCA 300
Db 241 GACAGGATCATCCCGCCACCTCCAGCTCCCAAGTGGTTTGACGGGAGCGGGCGCGCA 300
QY 301 GAAACCGCAGGAGCACTTACCGAGTACTGACAGCACGCTCATGAGCCTGCCCAAGAT 360
Db 301 GAAACCGCAGGAGCACTTACCGAGTACTGACAGCACGCTCATGAGCCTGCCCAAGAT 360
QY 361 CTCCTGCTGTCCCACTCTCGACTTCTTCAAGGTGGGCTTGTATGATGATGATGATG 420
Db 361 CTCCTGCTGTCCCACTCTCGACTTCTTCAAGGTGGGCTTGTATGATGATGATGATG 420
QY 421 CACGACACACAGACAAAAAGCCAGACATCTTGTATGCCCAAGATGGCAAGATAC 480
Db 421 CACGACACACAGACAAAAAGCCAGACATCTTGTATGCCCAAGATGGCAAGATAC 480
QY 481 CCGCAGACATCATCCGGCCCATCATCTGTCAGACGTACCGCGCATTTGCCAATACGA 540
Db 481 CCGCAGACATCATCCGGCCCATCATCTGTCAGACGTACCGCGCATTTGCCAATACGA 540
QY 541 GAAGACCTCGGCTCCGAGATGGCTCTGTCTGATGAAAGCAAGCGAGGCTGGATCCAGCGTC 600
Db 541 GAAGACCTCGGCTCCGAGATGGCTCTGTCTGATGAAAGCAAGCGAGGCTGGATCCAGCGTC 600
QY 601 GAGCGAGACGGTGTGTGTCTGTCTGATGAAAGCAAGCGAGGCTGGATCCAGCGTC 660
Db 601 GAGCGAGACGGTGTGTGTCTGTCTGATGAAAGCAAGCGAGGCTGGATCCAGCGTC 660
QY 661 CTTCTCGAGCCCTCGACAGTCTTGAACGAGACCGTCTGAGCCCACTATGCAAG 720
Db 661 CTTCTCGAGCCCTCGACAGTCTTGAACGAGACCGTCTGAGCCCACTATGCAAG 720
QY 721 TGAGCCATACGTCCGATCAAGCCCTACCTCTGTGAGGGGAGCGAGGTGCTCCGT 780
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Db 721 TGAGCATACGTCGCCATCAAGCCCTACACTGCTGTGGAGGGGAGAGGTGTCCCTGCT 780  
Qy 781 CGAGGGTGAAGCTGTGGAGTCAATCAAGCTCTCTGGAAGCTGTGGAGGGGAGAGGTGTCCCTGCT 840  
Db 781 CGAGGGTGAAGCTGTGGAGTCAATCAAGCTCTCTGGAAGCTGTGGAGGGGAGAGGTGTCCCTGCT 840  
Qy 841 AGGCTACTTCCGCTCATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900  
Db 841 AGGCTACTTCCGCTCATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900  
Qy 901 CCAGATCAAGCGGG 960  
Db 901 CCAGATCAAGCGGG 960  
Qy 961 CCAGCGGTGCGGGAAGCGCTCAGCGAGGAGCGCTATCGCGGAGCGCTGCTGCTGCTGCTGCTGCT 1020  
Db 961 CCAGCGGTGCGGGAAGCGCTCAGCGAGGAGCGCTATCGCGGAGCGCTGCTGCTGCTGCTGCTGCT 1020  
Qy 1021 GCAGCAGCAGCG 1080  
Db 1021 GCAGCAGCAGCG 1080  
Qy 1081 GGAGCGGAGCG 1140  
Db 1081 GGAGCGGAGCG 1140  
Qy 1141 CCTCATCTCTGAACCGCTGCGAGGAGGAGCACCAGCGGAGGCTGCGGCTGCTGCGGCTGCTGAGG 1200  
Db 1141 CCTCATCTCTGAACCGCTGCGAGGAGGAGCACCAGCGGAGGCTGCGGCTGCTGCGGCTGCTGAGG 1200  
Qy 1201 CTGGAGCGCAGTCCCGAGTACGCTGCTGCGGCTGCTGCGGCTGCTGCGGCTGCTGCTGCTGCT 1260  
Db 1201 CTGGAGCGCAGTCCCGAGTACGCTGCTGCGGCTGCTGCGGCTGCTGCGGCTGCTGCTGCTGCT 1260  
Qy 1261 TTCTATAGAGCTGGGCTGCGAGCGCGGAGGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1320  
Db 1261 TTCTATAGAGCTGGGCTGCGAGCGCGGAGGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1320  
Qy 1321 CGGCCACCTCAATAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1380  
Db 1321 CGGCCACCTCAATAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1380  
Qy 1381 AA 1382  
Db 1381 AA 1382

RESULT 3  
US-09-023-655-1176  
Sequence 1176, Application US/09023655  
Patent No. 6607879  
GENERAL INFORMATION:  
APPLICANT: Cocks, Benjamin G.  
APPLICANT: Susan G. Stuart  
APPLICANT: Jeffrey J. Seilhamer  
TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE  
TITLE OF INVENTION: EXPRESSION  
NUMBER OF SEQUENCES: 1508  
CORRESPONDENCE ADDRESS:  
ADDRESS: INCYTE PHARMACEUTICALS, INC.  
STREET: 3174 PORTER DRIVE  
CITY: PALO ALTO  
STATE: CALIFORNIA  
COUNTRY: USA  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/023,655

FILING DATE: HEREWITH  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Zeller, Karen J.  
REGISTRATION NUMBER: 37,071  
REFERENCE/DOCKET NUMBER: PA-0001 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (650) 855-0555  
TELEFAX: (650) 845-4166  
INFORMATION FOR SEQ ID NO: 1176:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1349 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: GENBANK  
CLONE: g189050  
US-09-023-655-1176  
Query Match 94.3%; Score 1303.8; DB 4; Length 1349;  
Best Local Similarity 98.6%; Pred. No. 1.4e-298;  
Matches 1330; Conservative 0; Mismatches 7; Indels 12; Gaps 1;  
Qy 16 GAGCACTGAGGCGCCACCGAGTCAATCCAGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 75  
Db 1 GAGCACTGAGGCGCCACCGAGTCAATCCAGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 60  
Qy 76 CTTTGAGAGGCGCTTCTGTAATCCAGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 135  
Db 61 CTTTGAGAGGCGCTTCTGTAATCCAGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120  
Qy 136 GAGCTGTGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 195  
Db 121 GAGCTGTGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 180  
Qy 196 CTTTAAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 255  
Db 181 CTTTAAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 240  
Qy 256 CCACCTCCAGCTCCCAAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 315  
Db 241 CCACCTCCAGCTCCCAAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 300  
Qy 316 ACTTACGAGTACTGAGCAGCAGTCAATGAGGCTGCGCCAGGAGGAGGAGGAGGAGGAGGAGGAG 375  
Db 301 ACTTACGAGTACTGAGCAGCAGTCAATGAGGCTGCGCCAGGAGGAGGAGGAGGAGGAGGAGG 360  
Qy 376 CTTCTCGAGCTTCTTCAAGGTCGCGCTGATGAGCTCAAGCTCCCGAGGAGGAGGAGGAGGAGG 435  
Db 361 CTTCTCGAGCTTCTTCAAGGTCGCGCTGATGAGCTCAAGCTCCCGAGGAGGAGGAGGAGGAGG 420  
Qy 436 AAAAAAGCAGAGACATCTTGTATGCCAAAGAGTGGAGTGGAGTGGAGTGGAGTGGAGTGGAGT 495  
Db 421 AAAAAAGCAGAGACATCTTGTATGCCAAAGAGTGGAGTGGAGTGGAGTGGAGTGGAGTGGAGT 480  
Qy 496 CGGCGCCATCATCTGCGAGAGTACCGGCGCATTCGCAACTACGAGAGGAGGAGGAGGAGGAGG 555  
Db 481 CGGCGCCATCATCTGCGAGAGTACCGGCGCATTCGCAACTACGAGAGGAGGAGGAGGAGGAGG 540  
Qy 556 CGAGATGGCTGTCCAGCGGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 615  
Db 541 CGAGATGGCTGTCCAGCGGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 600  
Qy 616 GTGGTTCTGTGAGTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 675  
Db 601 GTGGTTCTGTGAGTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 660  
Qy 676 GGACAGTCTGTGAGCAGAGAGGAGAGCCCTGAGGCCAATATGAGGAGGAGGAGGAGGAGGAGG 735

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Db 661 GGACAGTCTTGACGAGACGAGACCTTGAGCCCACTATGAGGTGAGCATAGTGGC 720
QY 736 CATCAGGCTTACACTGCTGTGAGGGGACGAGGTGTCCCTGCTCGAGGGTGAAGCTGT 795
Db 721 CATCAAGGCTTACACTGCTGTGAGGGGACGAGGTGTCCCTGCTCGAGGGTGAAGCTGT 780
QY 796 TGAGGTCAATTCACAAAGCTCTGACGGCT-----GGAAGAGCAGCTACAGG 843
Db 781 TGAGGTCAATTCACAAAGCTCTGACGGCTGTGGTGTATCAGGAAGAGCAGCTACAGG 840
QY 844 CTACTTCCCGTTCATGTAAGTCAAGGCAAGAGTGTCCAGGCCCCAACGCCA 903
Db 841 CTACTTTCGGTTCATGTAAGTCAAGGCAAGAGTGTCCAGGCCCCAACGCCA 900
QY 904 GATCAAGCGGGGGCGCGCCCGCAGGTGCTCATCCGCAAGCGCCACAGCATCCACCA 963
Db 901 GATCAAGCGGGGGCGCGCCCGCAGGTGCTCATCCGCAAGCGCCACAGCATCCATCA 960
QY 964 GCGGTGCGGAAGCGCTCAGCGAGCAGCGCTATCCGCGCAACAGAGGTCCGTTTCTGCA 1023
Db 961 GCGGTGCGGAAGCGCTCAGCGAGCAGCGCTATCCGCGCAACAGAGGTCCGTTTCTGCA 1020
QY 1024 GAGCGAGCGCGCAGCGCGCGCGGACCGCAGAGCCCGGAGCCCGTTCGAGGAGGA 1083
Db 1021 GAGCGAGCGCGCAGCGCGCGCGGACCGCAGAGCCCGGAGCCCGTTCGAGGAGGA 1080
QY 1084 GCGGACAGCGAGCGCTCTAAACCGCAGCGCGGGTGGCCCGCGCGCGCGCGACCT 1143
Db 1081 GCGGACAGCGAGCGCTCTAAACCGCAGCGCGGGTGGCCCGCGCGCGCGCGACCT 1140
QY 1144 CATCTGAAACCGTGCAGCGAGCAGCACCAGCGGAAGCTGGCGTCTGCGGTCTGAGGCTG 1203
Db 1141 CATCTGAAACCGTGCAGCGAGCAGCACCAGCGGAAGCTGGCGTCTGCGGTCTGAGGCTG 1200
QY 1204 GAGCGAGTCCCGAGTACGCTTGGCGCTTGGCGCCCGTGGCTGTATATACGTTTC 1263
Db 1201 GAGCGAGTCCCGAGTACGCTTGGCGCTTGGCGCCCGTGGCTGTATATACGTTTC 1260
QY 1264 TATAGAGCTGGCTGTGACCGCGAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1323
Db 1261 TATAGAGCTGGCTGTGACCGCGAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1320
QY 1324 CCACCTCAATAAATGTTCTTGGAGTGG 1352
Db 1321 CCACCTCAATAAATGTTCTTGGAGTGG 1349
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RESULT 4
US-9-820-005-3
; Sequence 3, Application US/09820005
; Patent No. 6489149
; GENERAL INFORMATION:
; APPLICANT: SHAO, Wei et al
; TITLE OF INVENTION: ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES
; FILE REFERENCE: CL001198
; CURRENT APPLICATION NUMBER: US/09/820,005
; CURRENT FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 18853
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)...(18853)
; OTHER INFORMATION: n = A,T,C or G
US-9-820-005-3
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Query Match 20.3%; Score 280.6; DB 4; Length 18853;

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Best Local Similarity 92.5%; Pred. No. 3.2e-56;
Matches 295; Conservative 0; Mismatches 24; Indels 0; Gaps 0;
QY 1035 GCCAGCGCGCGCGGACCGCAGAGACCGCCCGGAGAGCCCGTTCGAGGAGAGCGGACAGCGC 1094
Db 17050 GCGGCGCGCGCGGCTCTGACTCGGCGCCCGCTCTCTGCGCGCAGAGGAGGAGCGCAGACGC 17109
QY 1095 AGCGCTCTAAACCGCAGCGCGGCTGGCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1154
Db 17110 AGCGCTCTAAACCGCAGCGCGGCTGGCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 17169
QY 1155 GCTGACGAGAGCAGCACCAGAGCGAAGAGTGGCGTCTGCGGTCTGAGGCTGGAGCGCAGTCC 1214
Db 17170 GCTGACGAGAGCAGCACCAGAGCGAAGTGGCGTCTGCGGTCTGAGGCTGGAGCGCAGTCC 17229
QY 1215 CCAGTAGAGTCTCGGCGCTTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1274
Db 17230 CCAGTAGAGTCTCGGCGCTTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 17289
QY 1275 GCGTCTGGACCGCGAGGCGCAGCCCGAGCCCTGTCCAGCGCGCTCCCGCCACCTCAAT 1334
Db 17290 GCGTCTGGACCGCGAGGCGCAGCCCGAGCCCTGTCCAGCGCGCTCCCGCCACCTCAAT 17349
QY 1335 AAATGTTGTTGGAGTGA 1353
Db 17350 AAATGTTGTTGGAGTGA 17368
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RESULT 5
US-10-109-856-3
; Sequence 3, Application US/10109856
; Patent No. 6709850
; GENERAL INFORMATION:
; APPLICANT: SHAO, Wei et al.
; TITLE OF INVENTION: ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES
; FILE REFERENCE: CL001198DIV
; CURRENT APPLICATION NUMBER: US/10/109,856
; CURRENT FILING DATE: 2002-04-01
; PRIOR APPLICATION NUMBER: 09/820,005
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 18853
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)...(18853)
; OTHER INFORMATION: n = A,T,C or G
US-10-109-856-3
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Query Match 20.3%; Score 280.6; DB 4; Length 18853;
Best Local Similarity 92.5%; Pred. No. 3.2e-56;
Matches 295; Conservative 0; Mismatches 24; Indels 0; Gaps 0;
QY 1035 GCCAGCGCGCGCGGACCGCAGAGACCGCCCGGAGAGCCCGTTCGAGGAGAGCGGACAGCGC 1094
Db 17050 GCGGCGCGCGCGGCTCTGACTCGGCGCCCGCTCTCTGCGCGCAGAGGAGGAGCGCAGACGC 17109
QY 1095 AGCGCTCTAAACCGCAGCGCGGCTGGCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1154
Db 17110 AGCGCTCTAAACCGCAGCGCGGCTGGCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 17169
QY 1155 GCTGACGAGAGCAGCACCAGAGCGAAGTGGCGTCTGCGGTCTGAGGCTGGAGCGCAGTCC 1214
Db 17170 GCTGACGAGAGCAGCACCAGAGCGAAGTGGCGTCTGCGGTCTGAGGCTGGAGCGCAGTCC 17229
QY 1215 CCAGTAGAGTCTCGGCGCTTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1274
Db 17230 CCAGTAGAGTCTCGGCGCTTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 17289
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; PRIOR FILING DATE: 2000-07-10  
; NUMBER OF SEQ ID NOS: 16825  
; SEQ ID NO 8758  
; LENGTH: 1902  
; TYPE: DNA  
; ORGANISM: Myxococcus xanthus  
US-09-902-540-8758

Query Match 3.7%; Score 51.8; DB 4; Length 1902;  
Best Local Similarity 45.5%; Pred. No. 0.018;

Matches 185; Conservative 0; Mismatches 222; Indels 0; Gaps 0;

QY 766 CGAGGTGTCCTCTCGAGGGTGAAGCTGTGAGGTCAATTCACAGCTCTCTGACGGCTG 825

DB 1086 CGAGCGGGCGCTGGCCGTCAAGCGCGCTCAGGTGGAGATGGAGAAGCTCCAGCGGAACA 1145

QY 826 GAAAGACGAGCTCAGAGGTACTTCCGTTCATGATCTGCAAAAGTCAAGGCAAGAGCT 885

DB 1146 GGACGCGGAGGTGCGCGCGCAGCGCTGGCCCTGGAGAAGCTCAAGCGGAGCAGGACAC 1205

QY 886 GTCCACAGGCCCAACGCCAGATCAAGCGGGGGCGCGCCCGCAGGTCTGTCATCGCAA 945

DB 1206 GGAGCGGTGCGCGCAAACTGAGCTGGAGAAGCTGAAGCTGGCGCAGAGTCCGAGC 1265

QY 946 CGCGCACAGATCCACAGCGGTGCGGAAGCGCTTCAGCCAGGACGCTATCGCGCAA 1005

DB 1266 CGCGCAGGCGAAATCGAGCTGGTGGCTCCAGCGCGCGCAGGAGGGGAGAAAGCCAA 1325

QY 1006 CAGCTCCGTTTCTCAGCAGGAGCGCGCCAGCGCGCGCGCGGACCCAGAGCCCGG 1065

DB 1326 GGCGCAGATGGAGCTGGCGCGCAGCGCTGAACAGCGCTGGAGCTGTCAAGCGAGCG 1385

QY 1066 GAGCCCGCTCGAGGAGGAGCGGCGAGCAGCGCTCTAAACCGCAGCGCGCGGTGCCCC 1125

DB 1386 GCACGAGCAGAGGTGAGCTGCGAAGCTGGCCCGCAGCAGGAGGAGCGCGCGCCAA 1445

QY 1126 GCGCGCAGCGCGGACCTCATCTGAACCGCTGCGAGCAGGACCA 1172

DB 1446 GCGCAGCTGGAGCTGGAGCGCTGGCGCGCGCAGCAGCAAGGCA 1492

## RESULT 9

US-09-902-540-929/c  
; Sequence 929, Application US/09902540  
; Patent No. 6833447  
; GENERAL INFORMATION:

; APPLICANT: Goldman, Barry S.

; APPLICANT: Hinkle, Gregory J.

; APPLICANT: Slater, Steven C.

; APPLICANT: Wiegand, Roger C.

; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof

; FILE REFERENCE: 38-10(15849)B

; CURRENT APPLICATION NUMBER: US/09/902,540

; CURRENT FILING DATE: 2001-07-10

; PRIOR APPLICATION NUMBER: 60/217,883

; PRIOR FILING DATE: 2000-07-10

; NUMBER OF SEQ ID NOS: 16825

; SEQ ID NO 929

; LENGTH: 9556

; TYPE: DNA

; ORGANISM: Myxococcus xanthus

US-09-902-540-929

Query Match 3.7%; Score 51.8; DB 4; Length 9556;

Best Local Similarity 45.5%; Pred. No. 0.031;

Matches 185; Conservative 0; Mismatches 222; Indels 0; Gaps 0;

QY 766 CGAGGTGTCCTCTCGAGGGTGAAGCTGTGAGGTCAATTCACAGCTCTCTGACGGCTG 825

DB 2763 CGAGCGGGCGCTGGCGCGCTCAGCGCGCTCAGGTGGAGATGGAGAAGCTCCAGCGGAACA 2704

QY 826 GAAAGACGAGTCAAGAGTACTTCCGTTCATGATCTGCAAAAGTCAAGGCAAGAGCT 885

DB 2703 CGACGCGGAGTTCGCGCGCCAGCGCTGCGCTCTGAGAAAGCTCAAGCGGAGCAGGACAC 2644

QY 886 GTCCAGGCGCCAAAGCCAGATCAAGGGGGGGCGCGCCCGCCAGGTGCTCATCGCAA 945

DB 2643 GGAGCGCGGTTCGCGCAAACTGGAGCTGGAGAAGCTGAAGCTTGGCGCAGAGTCCGAGC 2584

QY 946 CGCGCACAGCATCCACACAGCGGTTCGCGGAAGCGCTCAGCCAGGACGCTATTCGCGCAA 1005

DB 2583 CGCGCAGGCGAAATTCAGCTGCTGCTCAGCGCGCGCAGGAGCGGAGAACGCCAA 2524

QY 1006 CAGCTCCGTTTCTCAGCAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1065

DB 2523 GCGCAGATGGAGCTGGCGCGCGCAGCGCTGAACAGCGCTGGAGCTGTCAAGCGAGCG 2464

QY 1066 GAGCGCGCTCGAGGAGGAGCGCGCAGCAGCGCTCTAAACCGCAGCGCGCGCGCGCG 1125

DB 2463 GCACGAGCAGGAGTGGAGCTGGCGCGCGCAGCGCGCGCGCGCGCGCGCGCGCGCAA 2404

QY 1126 GCGCGCAGCAA 1172

DB 2403 GCGCAGCTGGAGCTGGAGCGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCAA 2357

## RESULT 10

US-09-252-991A-1708

; Sequence 1708, Application US/09252991A

; Patent No. 6551795

; GENERAL INFORMATION:

; APPLICANT: Marc J. Rubenfield et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 107196.136

; CURRENT APPLICATION NUMBER: US/09/252,991A

; PRIOR FILING DATE: 1999-02-18

; PRIOR FILING DATE: 1998-02-18

; PRIOR APPLICATION NUMBER: US 60/094,190

; PRIOR FILING DATE: 1998-07-27

; NUMBER OF SEQ ID NOS: 33142

; SEQ ID NO 1708

; LENGTH: 2172

; TYPE: DNA

; ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-1708

Query Match 3.5%; Score 48.8; DB 4; Length 2172;

Best Local Similarity 50.0%; Pred. No. 0.094;

Matches 122; Conservative 0; Mismatches 122; Indels 0; Gaps 0;

QY 157 CTACCGCGCTTCACCGGAGATCTACGAGTTCCTATAAAACCTTAAAGAAATGTTCCCTAT 216

DB 990 CCACCTGGCGCAACCGCGAACTTACGATGGAGCTCCCGCGGAGAGCTGTTGCGCAG 1049

QY 217 TGAGCAGGGCGGATCAATCCAGAGAACAGGATATATCCCACTCCAGCTCCCAAGTG 276

DB 1050 GGACTTACCTGCGCATCAGCAGCAGGAGCAGATGCGCAGCGCGCGCGCTTGCCTT 1109

QY 277 GTTTGACGGCAGCGGGCGCGCGGAGAACCGCAGGGCACACTTACCGAGTAGTCGAGCAC 336

DB 1110 CCAGCACGCTTGTTCGGCTTCGACGCGCGCACCGCTGCTGGCGCGCGAGTAAACCGAT 1169

QY 337 GCTCATGAGCTGCGCCACCAAGATCTCCCGCTGTCCCACTCCCTCCGACTTCTTCAAGT 396

DB 1170 CGCTTCGCTGACCAACAACATATCGCCCTATACCGATGTGCGGCGCGACTACATCGA 1229

QY 397 GCGC 400

DB 1230 CCCC 1233

## RESULT 11

US-09-252-991A-2016/c

; Sequence 2016, Application US/09252991A

; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 2016  
; LENGTH: 2241  
; TYPE: DNA  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-2016

Query Match 3.5%; Score 48.8; DB 4; Length 2241;  
Best Local Similarity 50.0%; Pred. No. 0.095;  
Matches 122; Conservative 0; Mismatches 122; Indels 0; Gaps 0;  
  
QY 157 CTACGGCGCTTCACCGAGATCTACGAGTTCATATAAACCCTTAAGAATGTTCCCTAT 216  
DB 1246 CCACTGGCGCAACGCCGAACCTACGAATGGGACGTCCCGCGAAGAGCTGTTGGCGAG 1187  
  
QY 217 TGAGGCGAGGGCGGATCAATCCAGAGAACAGGATCATCCGCCACCTCCAGCTCCCAAGTG 276  
DB 1186 GGAATACCTTGGCATCAGCCAGCAGGAGGAGATCGGCGGAGCCAGACCTTCGCCCT 1127  
  
QY 277 GTTTCAGCGGAGCGGGCGCGGAGAACCGCGAGGACACTTACCGAGTCTGAGCAGC 336  
DB 1126 CCAGCAGCGCCCTGTTCCGGCTCGACAGCGCACCTCTGCTGGCGCGAGTACAAACGCGAT 1067  
  
QY 337 GCTCATGAGCTGCCACCAAGATCTCCGCTGTCCCGACCTCTCGACTTCTTCAAGT 396  
DB 1066 CCGCTTCGCGCTGACCAACATATCGCCCTATACCGATGTGGCGGCGACTACATCGA 1007  
  
QY 397 GCGC 400  
DB 1006 CCCC 1003

RESULT 12  
US-09-252-991A-1856  
; Sequence 1856, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 1856  
; LENGTH: 2247  
; TYPE: DNA  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-1856

Query Match 3.5%; Score 48.8; DB 4; Length 2247;  
Best Local Similarity 50.0%; Pred. No. 0.095;  
Matches 122; Conservative 0; Mismatches 122; Indels 0; Gaps 0;  
  
QY 157 CTACGGCGCTTCACCGAGATCTACGAGTTCATATAAACCCTTAAGAATGTTCCCTAT 216  
DB 1177 CCACTGGCGCAACGCCGAACCTACGAATGGGACGTCCCGCGGAGAGCTGTTGGCGAG 1236

QY 217 TGAGGCGAGGGCGGATCAATCCAGAGAACAGGATCATCCCGACCTCCAGCTCCCAAGTG 276  
DB 1237 GGAATACCTTGGCATCAGCCAGCAGGAGGAGATCGGCGGAGCCAGACCTTCGCCCT 1296  
  
QY 277 GTTTCAGCGGAGCGGGCGCGGAGAACCGCGAGGACACTTACCGAGTCTGAGCAGC 336  
DB 1297 CCAGCAGCGCCCTGTTCCGGCTCGACAGCGGACCCCTGCTGGGCGCGAGTACACCGCAT 1356  
  
QY 337 GCTCATGAGCTGCCACCAAGATCTCCGCTGTCCCGACCTCTCGACTTCTTCAAGT 396  
DB 1357 CCGCTTCGCGCTGACCAACATATCGCCCTATACCGATGTGGCGGCGACTACATCGA 1416  
  
QY 397 GCGC 400  
DB 1417 CCCC 1420

RESULT 13  
US-09-949-016-207  
; Sequence 207, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; PRIOR FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 207  
; LENGTH: 2943  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-207

Query Match 3.5%; Score 48.8; DB 4; Length 2943;  
Best Local Similarity 50.9%; Pred. No. 0.11;  
Matches 116; Conservative 0; Mismatches 112; Indels 0; Gaps 0;  
  
QY 912 GGGGGGCGCGCGCGCGAGTGTCTCATCCGCAACCGCGACAGCATCCACCGCGTGC 971  
DB 1525 GTGCGCGCGCGAGCGGAACTGTGGCGCCACCCCGACCGCTCCAGCCAGCGCGCGCG 1584  
  
QY 972 GGAAGCGCTCAGCCAGGACGCTATCGCGCAACAGCGTCCGTTTCTGCGAGCAGCGAC 1031  
DB 1585 GGGCGCGCTTAAGCTGGGAACCCGCTGCGGCGGCGCGCGCGCGCGCGCGTGC 1644  
  
QY 1032 GCGCGCAGCGCGCGCGGACCGCAGAGCCCGGAGCCCGCTCGAGGAGGAGCGGAG 1091  
DB 1645 GCGCGCGCGCGCGCGGAGCAGCAAGCCCTCGGACACCGGTGGCGGCGCGAGTGGAG 1704  
  
QY 1092 CGCAGCGCTCTAAACCGCAGCGCGGTGCCCCCGGCGCGCGCGCGCGCGCG 1139  
DB 1705 CGCGCGGGGAGCGCGCGGAGCGCGGACCAAAATACCGGAGCAGCG 1752

RESULT 14  
US-09-710-693-18  
; Sequence 18, Application US/09710693  
; Patent No. 6642370  
; GENERAL INFORMATION:  
; APPLICANT: WISE, CAROL A  
; TITLE OF INVENTION: GENETIC MARKER FOR AUTOIMMUNE DISORDER  
; FILE REFERENCE: SEQ FOR TEX871  
; CURRENT APPLICATION NUMBER: US/09/710,693

; CURRENT FILING DATE: 2000-11-08  
; NUMBER OF SEQ ID NOS: 19  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 18  
; LENGTH: 1428  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)..(1248)  
US-09-710-693-18

Query Match 3.5%; Score 47.8; DB 4; Length 1428;  
Best Local Similarity 54.4%; Pred.No.0.14;  
Matches 118; Conservative 0; Mismatches 97; Indels 2; Gaps 1;

QY	459	TGCCCAAGATGCGCAGAGTACCGCAGACAGATACCGGCCCCATCATCTGCGAGCGT	518
Db	1033	TACACAGCCATCGCATGCGAGGATACAGGGAACCCCGCCTCACCAGCC--CAGGAGT	1090
QY	519	ACCGCGCCATTGCCAACTACGAGAAGACCTCGGGCTCCGAGATGGCTCTGTCCACGGGGG	578
Db	1091	ACCGGGGCTCTACGATTATACAGCGCAGAACCCAGATGAGCTGGACCTGTCCGGGGAG	1150
QY	579	ACGTGTGGAGTCTGTAGAGAGAGCGAGCGGTTGGTTCTGTCTCAGATGAAGCAA	638
Db	1151	ACATCTGGAGTGTCTCTGGAAGGGGAGGATGGCTGGTGGACTGTGGAGAGGACCGGC	1210
QY	639	ACGAGGCTGGATCCCGAGCTCTTCTCGAGCCCT	675
Db	1211	ACGCTGGCTTCGTCCTGTCTACCTGGAGAAGCT	1247

## RESULT 15

US-09-006-428A-18  
; Sequence 18, Application US/09006428A  
; Patent No. 644439  
; GENERAL INFORMATION:  
; APPLICANT: Jing Li  
; APPLICANT: Kazuhisa Nishizawa  
; APPLICANT: Wengqian An  
; APPLICANT: Ellis L. Reinherz  
; TITLE OF INVENTION: CLONING AND CHARACTERIZATION OF A  
; FILE REFERENCE: CG15-LIKE ADAPTOR PROTEIN (CD2BP1)  
; CURRENT APPLICATION NUMBER: US/09/006,428A  
; CURRENT FILING DATE: 1998-01-13  
; NUMBER OF SEQ ID NOS: 28  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 18  
; LENGTH: 1803  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (440)...(1630)  
US-09-006-428A-18

Query Match 3.5%; Score 47.8; DB 3; Length 1803;  
Best Local Similarity 54.4%; Pred.No.0.15;  
Matches 118; Conservative 0; Mismatches 97; Indels 2; Gaps 1;

QY	459	TGCCCAAGATGCGCAGAGTACCGCAGACAGATACCGGCCCCATCATCTGCGAGCGT	518
Db	1415	TACACAGCCATCGCATGCGAGGATACAGGGAACCCCGCCTCACCAGCC--CAGGAGT	1472
QY	519	ACCGGGCCATTGCCAACTACGAGAGACCTCGGGCTCCGAGATGGCTCTGTCCACGGGGG	578
Db	1473	ACCGGGCGCTTACGATTATACAGCGCAGAACCCAGATGAGCTGGACCTGTCCGGGGAG	1532
QY	579	ACGTGTGGAGTCTGTAGAGAGAGCGAGCGGTTGGTTCTGTCTCAGATGAAGCAA	638
Db	1533	ACATCTGGAGTGTCTCTGGAAGGGGAGGATGGCTGGTGGACTGTGGAGAGGACCGGC	1592

QY	639	ACGAGGCTGGATCCAGCGTCTCTTCTCGAGCCCT	675
Db	1593	ACGCTGGCTTCGTCCTCTGTTCTTACCTGGAGAAGCT	1629

Search completed: April 25, 2005, 08:51:21  
Job time : 276 secs